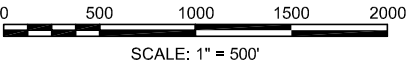
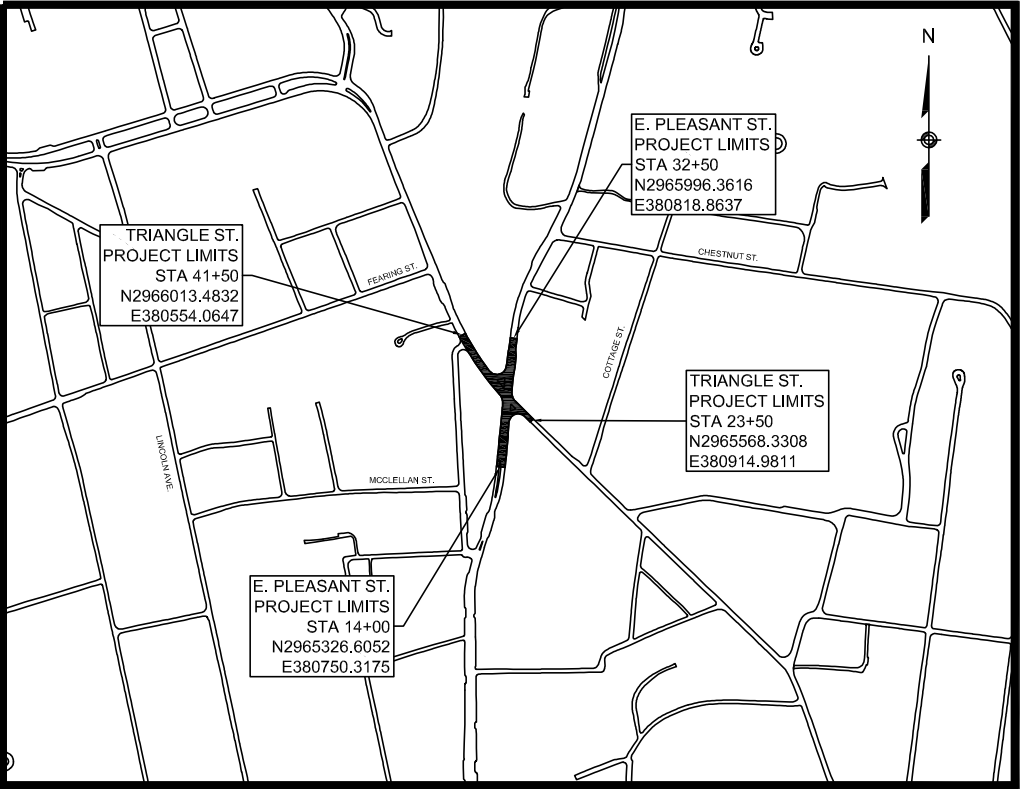


PLAN AND PROFILE OF  
  
EAST PLEASANT STREET AT TRIANGLE STREET  
MODERN ROUNDABOUT

IN THE CITY/TOWN OF  
  
AMHERST  
HAMPSHIRE COUNTY

INDEX		
SHEET NO.	DRAWING NO.	DESCRIPTION
1	TITLE	TITLE SHEET & INDEX
2	AB-1	LEGEND & ABBREVIATIONS
3	KP-1	KEY PLAN & BORING LOCATIONS
4-5	TS-1 TO TS-2	TYPICAL SECTIONS
6-8	CD-1 TO CD-3	CONSTRUCTION DETAILS
9-10	DD-1 TO DD-2	WHEELCHAIR RAMP & DRIVEWAY DETAILS
11-15	BT-1 TO BT-5	CONSTRUCTION BASELINE TIES
16-20	CP-1 TO CP-5	CONSTRUCTION PLANS
21-23	PR-1 TO PR-3	PROFILES
24-28	CT-1 TO CT-5	CURB TIE PLANS
29	TL-1	TRAFFIC LEGEND, ABBREVIATIONS & NOTES
30-34	PM-1 TO PM-5	TRAFFIC SIGN & PAVEMENT MARKINGS
35	SS-1	TRAFFIC SIGN SUMMARY SHEET
36-38	TM-1 TO TM-3	TRAFFIC MANAGEMENT PLANS
39-43	UP-1 TO UP-5	DRAINAGE & UTILITY PLANS
44-46	DP-1 TO DP-3	DRAINAGE PROFILES

THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, AS AMENDED, THE SUPPLEMENTAL SPECIFICATIONS DATED JUNE 15, 2012, THE 2012 CONSTRUCTION STANDARD DETAILS, THE 1996 CONSTRUCTION AND TRAFFIC STANDARD DETAILS, (AS RELATED TO TRAFFIC STANDARD DETAILS ONLY), THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS WITH MASSACHUSETTS AMENDMENTS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, AND THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, WILL GOVERN.



LENGTH OF PROJECT = 1,280.00 FEET = 0.24 MILES

DESIGN DESIGNATION (E. PLEASANT ST.)

DESIGN SPEED	35 MPH
ADT (2014)	4,290
ADT (2034)	4,400
K	10%
D	50%
T (PEAK HOUR)	3.00%
T (AVERAGE DAY)	3.00%
DHV	440
DDHV	440
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL

DESIGN DESIGNATION (TRIANGLE ST.)


























































































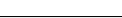































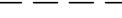

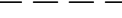

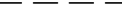








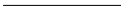







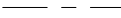





DESIGN SPEED	35 MPH
ADT (2014)	4,180
ADT (2034)	4,250
K	10%
D	50%
T (PEAK HOUR)	3.00%
T (AVERAGE DAY)	3.00%
DHV	425
DDHV	425
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL

25% SUBMISSION - AUGUST 2015

DATE	DESCRIPTION	REV #

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GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER ON BRIDGE OR JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		FIRE ALARM
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W / 1 LIGHT
		UTILITY POLE
	(REFER TO PLANT LIST)	BUSH
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCE STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HAY BALES/SILT FENCE
		TREE LINE OR LIMIT OF CLEARING AND GRUBBING
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT
		AREA OF DEMOLITION
		AREA OF CLEARING AND GRUBBING

TRAFFIC AND PAVEMENT MARKING SYMBOLS

REFER TO TRAFFIC LEGEND, ABBREVIATIONS, AND NOTES SHEET FOR TRAFFIC DETAILS.

NOTES

1. BASE MAPPING PROVIDED BY SURVEYING AND MAPPING CONSULTANTS (SMC) DECEMBER 20, 2013. 325 WOOD ROAD, SUITE 109, BRAINTREE, MA 02184. PHONE:(781)380-7766 FAX:(781)380-7757
2. ALL BASELINE TIES FOR CORNERS AND RADII OF CURB OR EDGING ARE TO THE P.C.'S OR P.T.'S, UNLESS OTHERWISE NOTED.
3. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83).
4. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
5. ALL PROPOSED GRANITE CURB SHALL BE TYPE VB, UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL VERIFY ALL OUTLET GRADES OF DRAINAGE STRUCTURES PRIOR TO CONSTRUCTING THE DRAINAGE IMPROVEMENTS.
7. ALL MATERIAL TO BE R&S SHALL BE CAREFULLY REMOVED, DELIVERED, AND NEATLY STACKED AT THE TOWN OF AMHERST DEPARTMENT OF PUBLIC WORKS INFRASTRUCTURE YARD.
8. ALL AREAS OUTSIDE OF THE LIMIT OF WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
9. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF ALL PRIVATE UTILITIES.
10. PRIOR TO THE INSTALLATION OF PROPOSED UTILITIES, THE CONTRACTOR SHALL EXCAVATE TEST PITS AT LOCATIONS OF UTILITY CROSSINGS TO VERIFY DEPTHS OF EXISTING PIPES, CONDUITS OR OTHER FACILITIES, AS REQUIRED BY ENGINEER.
11. THE CONTRACTOR SHALL SAWCUT TO THE FULL PAVEMENT DEPTH AT LOCATIONS WHERE NEW FULL DEPTH PAVEMENT OR NEW SIDEWALK MEETS EXIST. PAVEMENT OR SIDEWALK, AT THE LOCATIONS SHOWN ON THE PLANS AND AS REQUIRED BY THE ENGINEER.
12. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
13. ALL EXISTING MUNICIPAL UTILITY CASTINGS, WHICH ARE TO REMAIN, IN AREAS TO BE RE-PAVED SHALL BE ADJUSTED TO LINE AND GRADE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.
14. EXISTING GRANITE CURB DEEMED SUITABLE FOR RE-USE BY THE ENGINEER SHALL NOT BE RANDOMLY MIXED WITH NEW CURB, BUT SHALL BE RESET AS TO GIVE A UNIFORM APPEARANCE. EXISTING GRANITE CURB RADII DEEMED SUITABLE FOR RE-USE BUT NOT ELIGIBLE FOR RESETTNG SHALL BE REMOVED AND STACKED. ALL OTHER EXISTING CURBING SHALL BE DISPOSED.
15. ALL PROPOSED WHEELCHAIR RAMPS ARE TO BE CEMENT CONCRETE AND SHALL CONFORM TO LATEST AAB AND ADA WHEELCHAIR RAMP STANDARDS.
16. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND TO PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CALL "DIG-SAFE" 1-888-DIGSAFE (344-7233) AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION.
17. UNLESS OTHERWISE REQUIRED BY THE ENGINEER, EXISTING TREES WITHIN THE LIMIT OF WORK (RETAIN AND PROTECT) SHALL BE PROTECTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
18. ALL PROPOSED DRIVES SHOWN AT BACK OF PROPOSED CEMENT CONCRETE DRIVEWAY APRONS SHALL BE HOT MIX ASPHALT (H.M.A.) UNLESS OTHERWISE NOTED OR AS REQUIRED BY THE ENGINEER.
19. A MINIMUM 39" (EXCLUDING CURB) PATH OF TRAVEL SHALL BE MAINTAINED FROM ALL OBSTRUCTIONS (EXISTING, RELOCATED, AND PROPOSED) ON SIDEWALK INCLUDING, BUT NOT LIMITED TO, UTILITY POLES, HYDRANTS, SIGNS, SIGNALS, TREES AND MAILBOXES. IF THERE IS A CONFLICT, THE INFORMATION SHALL BE FURNISHED TO THE ENGINEER FOR RESOLUTION PRIOR TO SIDEWALK RECONSTRUCTION.
20. DRAINAGE ELEVATIONS ARE PROVIDED FOR DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY BY TEST PIT, THE LOCATIONS OF EXISTING UTILITIES WHICH MAY CONFLICT WITH THE PROPOSED DRAINAGE DESIGN. ANY FIELD ADJUSTMENTS REQUIRED WILL BE MADE AS APPROVED OR REQUIRED BY THE ENGINEER. ONLY AFTER THE CONTRACTOR VERIFIES ELEVATIONS FOR THE CONTRACTIBILITY OF THE DRAINAGE SYSTEM SHALL ANY STRUCTURES BE ORDERED. ANY FIELD ADJUSTMENTS TO LINE & GRADE UP TO A DEPTH OF 5' SHALL BE INCLUDED IN THE COST OF THE PIPE. PIPE EXCAVATION GREATER THAN 5' WILL BE PAID UNDER CLASS B TRENCH EXCAVATION.
21. DRAINAGE, SEWER AND WATER IMPROVEMENTS SHOWN AS DASHED ON PLANS AND LABELED AS "WORK BY OTHERS" ARE TO BE COMPLETED UNDER SEPARATE CONTRACT AND ARE ANTICIPATED TO BE COMPLETED PRIOR TO CONTRACT START. IMPROVEMENTS SHOWN UNDER SEPARATE CONTRACT ARE SUBJECT TO CHANGE AND FIELD VERIFICATION WILL BE REQUIRED PRIOR TO CONTRACT START.
22. FINAL LOCATION OF ALL PLANTINGS WILL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO PLANTING. ALL PLANTS WILL BE MULCHED PER THE PLANTING SPECIFICATIONS, DETAILS AND SPECIAL PROVISIONS. ALL PLANT MATERIAL WILL HAVE TAGS INDICATING COMMON NAME, BOTANICAL NAME AND SIZE.

ABBREVIATIONS

GENERAL	
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
ALT	ALTERATION
APPROX	APPROXIMATE
AC	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT	BITUMINOUS
BC	BOTTOM OF CURB
BD	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BOW	BACK OF WALK
BR	BRIDGE
C&G	CLEAR AND GRUB
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CLO	CITY LAYOUT LINE
CMP	CORRUGATED METAL PIPE
CNDT	CONDUIT
CSP	CORRUGATED STEEL PIPE
CO	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CONST STD	MASSDOT CONSTRUCTION STANDARDS
CR GR	CROWN GRADE
DEMO	DEMOLISH (DEMOLITION)
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEC	ELECTRIC
ELEV (or EL)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN	FOUNDATION
FDC	FULL DEPTH CONSTRUCTION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT

ABBREVIATIONS (cont.)

GENERAL	
INV	INVERT
JCT	JUNCTION
LOC	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PM&O	PAVEMENT MICROMILLING AND OVERLAY
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PROT	PROTECT
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET & PROT	RETAIN AND PROTECT
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK

REV. NO.	DATE	DRWN	CHKD	REMARKS	

DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALSUKUS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

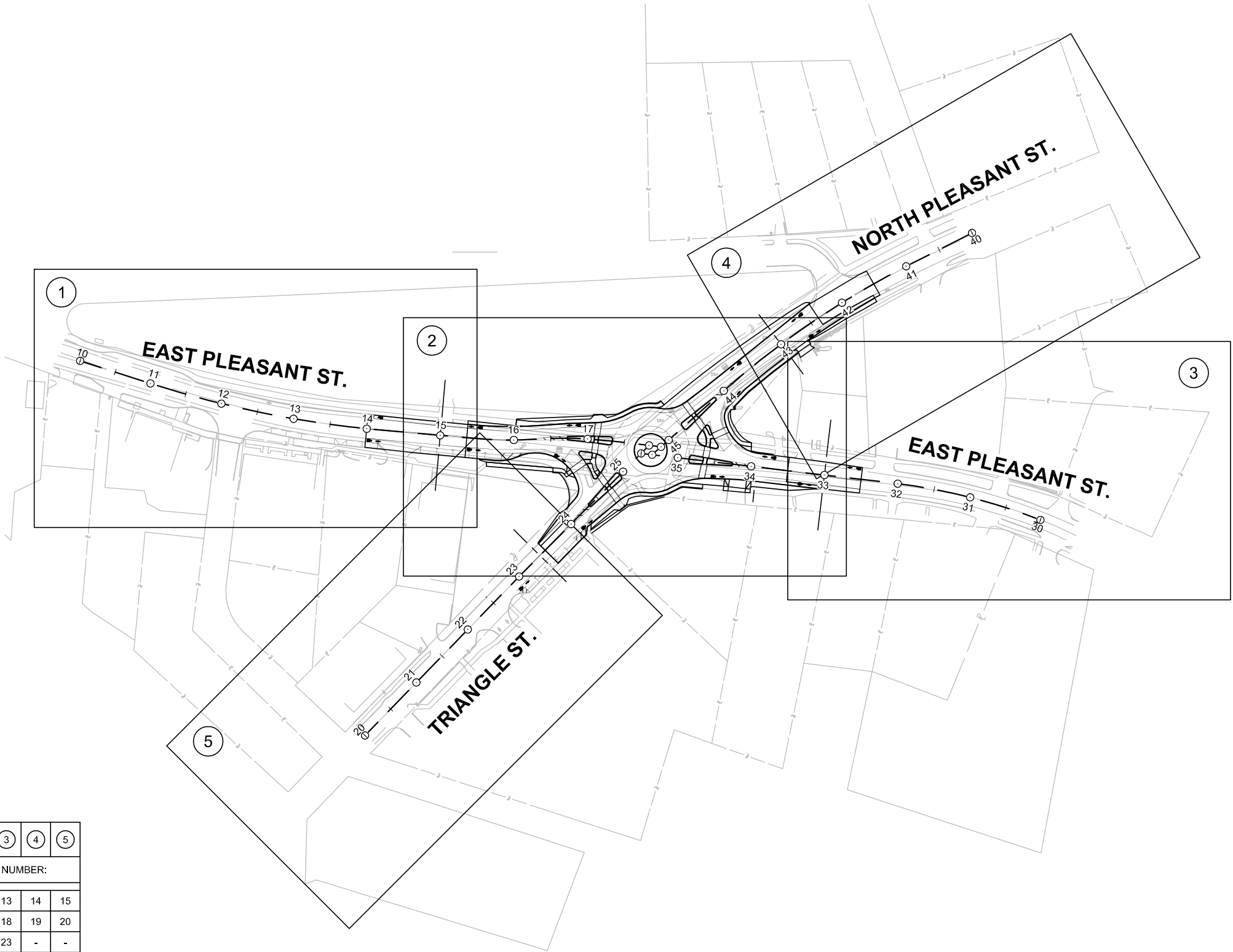
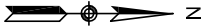


TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

LEGEND, NOTES & ABBREVIATIONS

PROJECT NO. 0572-104636  
FILE NAME: HD (Legend)  
SHEET NO.  
AB-1

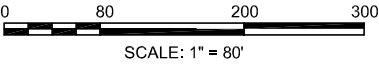
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DRAWING INDEX TABLE

	1	2	3	4	5
DRAWING TITLE:	SHEET NUMBER:				
CONSTRUCTION BASELINE TIE PLANS	11	12	13	14	15
CONSTRUCTION PLANS	16	17	18	19	20
PROFILES	21	22	23	-	-
CURB TIE PLANS	24	25	26	27	28
TRAFFIC SIGN AND PAVEMENT MARKING PLANS	29	30	31	32	33
DRAINAGE AND UTILITY PLANS	39	40	41	42	43

NOTE: UTILITIES NOT SHOWN FOR CLARITY



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALKUS  
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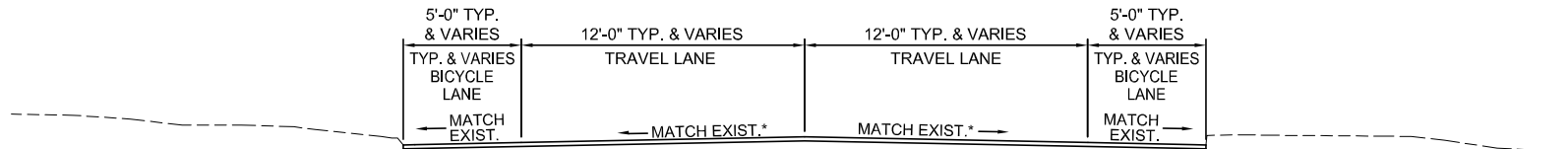
**CDM Smith**  
75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

KEY PLAN

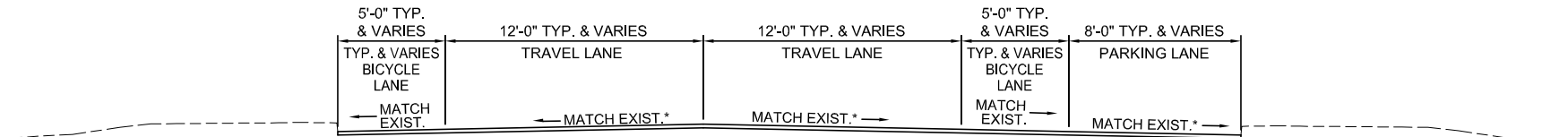
PROJECT NO. 0572-104636  
FILE NAME: HD (Key Plan)  
SHEET NO.  
**KP-1**

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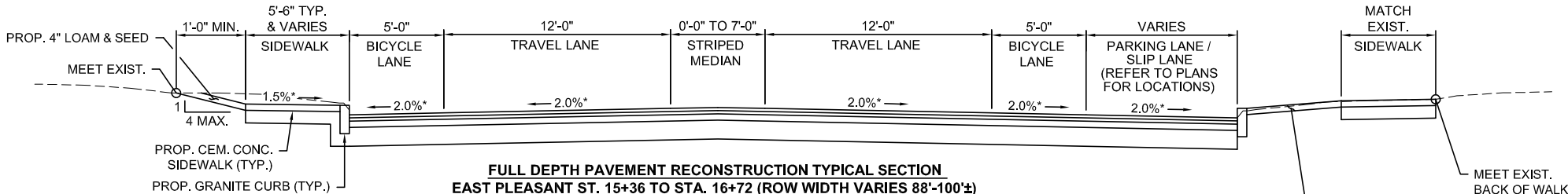
**MICROMILLING AND PAVEMENT OVERLAY TYPICAL SECTION**  
**EAST PLEASANT ST. STA. 32+50 TO 33+50 (ROW WIDTH VARIES 85'-95'±)**  
**NORTH PLEASANT ST. STA. 41+50 TO STA. 42+38 (ROW WIDTH VARIES 65'-120'±)**

\*TOLERANCE FOR CONSTRUCTION ± 0.5%  
\*\*SEE PAVEMENT MARKING PLANS FOR PAVEMENT WIDTHS AND TURN LANE LAYOUTS



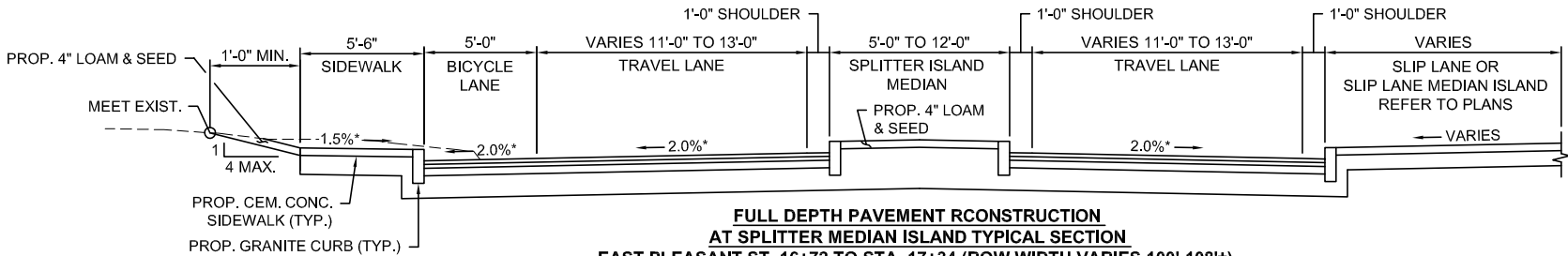
**MICROMILLING AND PAVEMENT OVERLAY TYPICAL SECTION**  
**EAST PLEASANT ST. STA. 14+00 TO STA. 15+36 (ROW WIDTH VARIES 80'-88'±)**  
**TRIANGLE ST. STA. 23+50 TO STA. 24+00 (ROW WIDTH 45'±)**

\*TOLERANCE FOR CONSTRUCTION ± 0.5%  
\*\*SEE PAVEMENT MARKING PLANS FOR PAVEMENT WIDTHS AND TURN LANE LAYOUTS



**FULL DEPTH PAVEMENT RECONSTRUCTION TYPICAL SECTION**  
**EAST PLEASANT ST. STA. 15+36 TO STA. 16+72 (ROW WIDTH VARIES 88'-100'±)**  
**TRIANGLE ST. STA. 24+00 TO STA. 24+34 (ROW WIDTH 45'±)**  
**EAST PLEASANT ST. STA. 33+50 TO STA. 34+25 (ROW WIDTH VARIES 91'-98'±)**  
**NORTH PLEASANT ST. STA. 42+38 TO STA. 44+14 (ROW WIDTH VARIES 65'-90'±)**

\*TOLERANCE FOR CONSTRUCTION ± 0.5%  
\*\*SEE PAVEMENT MARKING PLANS FOR PAVEMENT WIDTHS AND TURN LANE LAYOUTS



**FULL DEPTH PAVEMENT RCONSTRUCTION AT SPLITTER MEDIAN ISLAND TYPICAL SECTION**  
**EAST PLEASANT ST. STA. 16+72 TO STA. 17+34 (ROW WIDTH VARIES 100'-108'±)**  
**EAST PLEASANT ST. STA. 34+25 TO STA. 34+85 (ROW WIDTH VARIES 98'-145'±)**

\*TOLERANCE FOR CONSTRUCTION ± 0.5%  
\*\*SEE PAVEMENT MARKING PLANS FOR PAVEMENT WIDTHS AND TURN LANE LAYOUTS

## PAVEMENT NOTES

### PROPOSED MICROMILLING & PAVEMENT OVERLAY

**SURFACE:** 2" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5)  
2" PAVEMENT MILLING & OVERLAY

### PROPOSED FULLL DEPTH RECONSTRUCTION & 6' MIN. WIDENING

**SURFACE:** 2" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER  
2" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)

**BASE:** 4" SUPERPAVE BASE COURSE 37.5 (SBC-37.5) COURSE  
MATERIAL PLACED IN ONE COURSE.

**SUBBASE:** 4" DENSE GRADED CRUSHED STONE OVER  
8" GRAVEL BORROW, TYPE b.

### PROPOSE FULL DEPTH RECONSTRUCTION (<4' WIDENING)

**SURFACE:** 2" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER  
2" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)

**BASE:** 8" HIGH EARLY STRENGTH CONCRETE

**FOUNDATION:** 8" GRAVEL BORROW, TYPE b.

### PROPOSED PAVEMENT MICROMILLING & PAVEMENT OVERLAY

**SURFACE:** 2" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5)

PAVEMENT MICROMILLING VARIABLE DEPTH (2" TYPICAL)  
TO MEET PROPOSED GRADING

### PROPOSED CEMENT CONCRETE WALK AND WHEELCHAIR RAMPS

**SURFACE:** 4" CEMENT CONCRETE  
AIR ENTRAINED 4000 PSI, 3/4", 610

**FOUNDATION:** 8" GRAVEL BORROW, TYPE b.

### PROPOSED CEMENT CONCRETE DRIVEWAYS AND DRIVEWAY APRONS

**SURFACE:** 6" CEMENT CONCRETE

**FOUNDATION** 8" GRAVEL BORROW, TYPE b.

### PROPOSED ASPHALT DRIVEWAYS

**SURFACE:** 2" SUPERPAVE SURFACE COURSE 12.5 (SSC-12.5) OVER  
2" SUPERPAVE INTERMEDIATE COURSE 19.0 (SIC-19.0)

**FOUNDATION:** 8" GRAVEL BORROW, TYPE b.

### TACK COAT (RS-1)

ALL PAVEMENT SURFACES SHALL BE TACK COATED PRIOR TO OVERLAY AT A  
RATE OF 0.05 GAL/SY FOR SMOOTH SURFACES AND 0.07 GAL/SY FOR MILLED  
SURFACES.

### JOINT SEALANT

HOT APPLIED JOINT SEALANT SHALL BE APLIED TO ALL COLD JOINTS,  
LONGITUDINAL AND TRAVERSE AND AT FRAMES AND CURBING PRIOR TO PAVING.

### NOTE

EXISTING GRAVEL BORROW TESTED AND SHOWN TO BE MEETING THE REQUIREMENT  
OF M1.03.0 SHALL REMAIN AS BASE AND/OR SUBBASE WITH APPROVAL BY THE  
ENGINEER. PROPOSED GRAVEL BORROW SHALL BE USED TO REPLACE ANY  
UNSUITABLE MATERIAL AND FOR LEVELING AS REQUIRED.

SCALE: N.T.S.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALSUKS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

**CDM Smith**  
75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

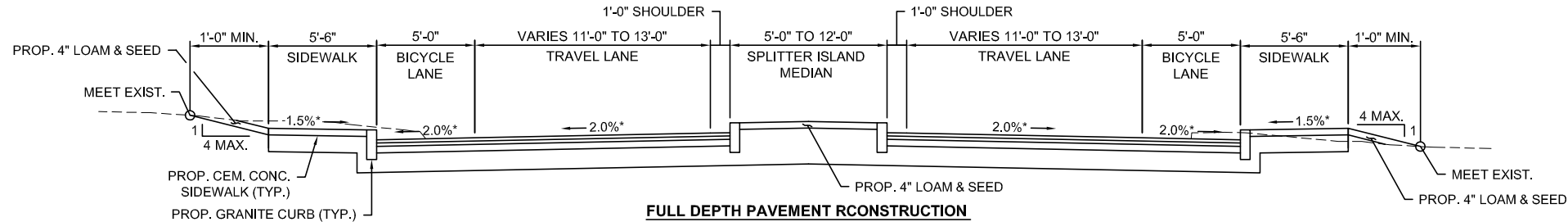
TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

TYPICAL SECTIONS

PROJECT NO. 0572-104636  
FILE NAME: HD (Typical Sections)  
SHEET NO.  
**TS-1**

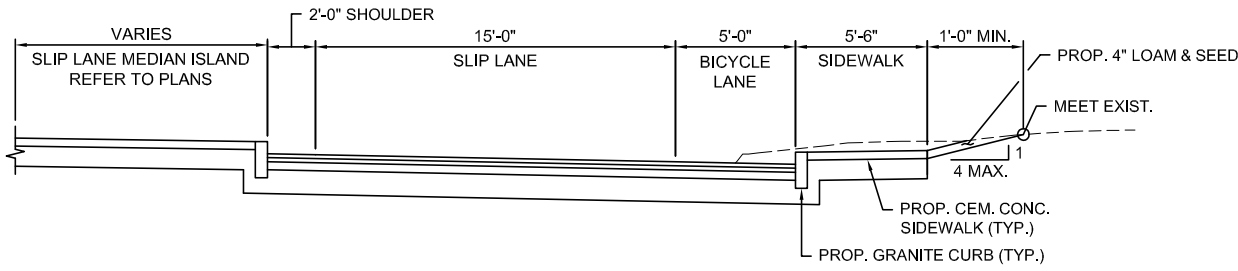


NOTE:  
SEE TS-1 FOR PAVEMENT COURSES



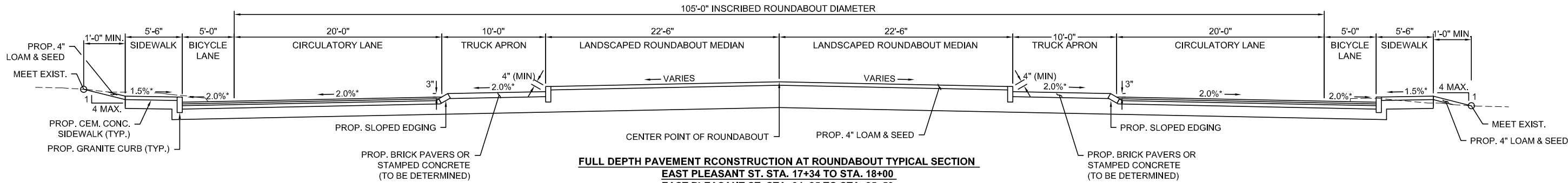
**FULL DEPTH PAVEMENT RCONSTRUCTION  
AT SPLITTER MEDIAN ISLAND TYPICAL SECTION**  
TRIANGLE ST. STA. 24+34 TO STA. 24+94 (ROW WIDTH 45'±)  
NORTH PLEASANT ST. STA. 44+14 TO STA. 44+94 (ROW WIDTH 65'±)

\*TOLERANCE FOR CONSTRUCTION ± 0.5%  
\*\*SEE PAVEMENT MARKING PLANS FOR PAVEMENT WIDTHS AND TURN LANE LAYOUTS



**FULL DEPTH PAVEMENT RCONSTRUCTION  
AT SLIP LANE TYPICAL SECTION**  
EAST PLEASANT ST. STA. 16+25 TO TRIANGLE ST. STA. 24+26  
EAST PLEASANT ST. STA. 33+93 TO NORTH PLEASANT ST. STA. 44+09

\*TOLERANCE FOR CONSTRUCTION ± 0.5%  
\*\*SEE PAVEMENT MARKING PLANS FOR PAVEMENT WIDTHS AND TURN LANE LAYOUTS



**FULL DEPTH PAVEMENT RCONSTRUCTION AT ROUNDABOUT TYPICAL SECTION**  
EAST PLEASANT ST. STA. 17+34 TO STA. 18+00  
EAST PLEASANT ST. STA. 34+85 TO STA. 35+50  
TRIANGLE ST. STA. 24+94 TO STA. 25+50  
NORTH PLEASANT ST. STA. 44+74 TO STA. 45+30

\*TOLERANCE FOR CONSTRUCTION ± 0.5%  
\*\*SEE PAVEMENT MARKING PLANS FOR PAVEMENT WIDTHS AND TURN LANE LAYOUTS

SCALE: N.T.S.

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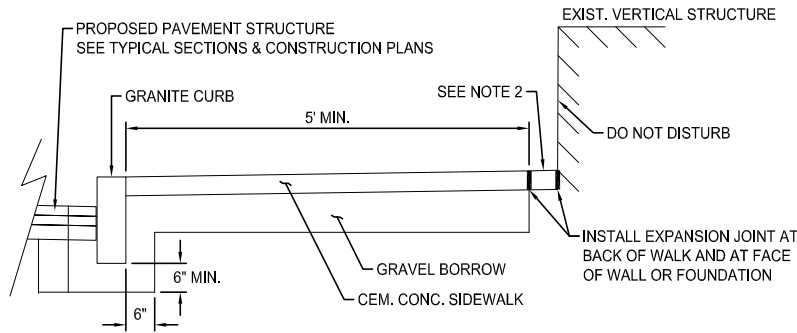
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75 State Street, Suite 701  
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TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

TYPICAL SECTIONS

PROJECT NO. 0572-104636  
FILE NAME: HD (Typical Sections)  
SHEET NO.  
**TS-2**

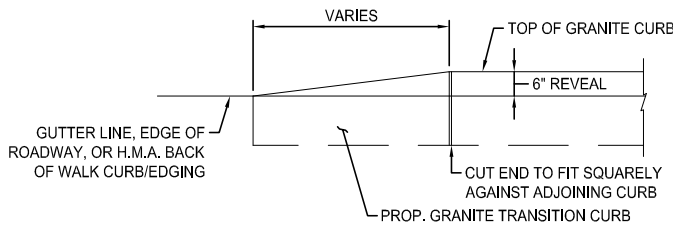
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**CEM. CONC. SIDEWALK AT EXISTING WALLS AND FOUNDATION DETAIL**  
NOT TO SCALE

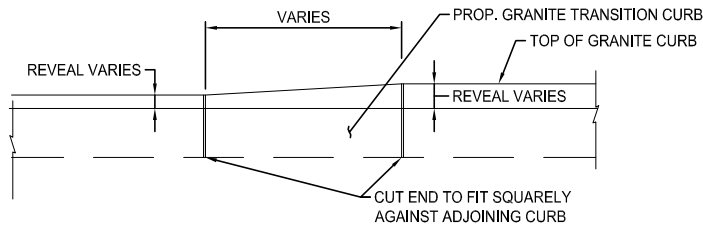
NOTES:

- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 6" FROM ALL EXISTING WALLS.
- WHERE THE PROPOSED BACK OF WALK ELEVATION IS HIGHER THAN EXISTING GRADE AT THE FACE OF WALL/STRUCTURE, UNLESS OTHERWISE REQUIRED BY ENGINEER, BACK OF WALK FILL SHALL BE 4" 4000 PSI, 3/4" 610 CEM. CONC. GRADED TO DRAIN TOWARDS SIDEWALK. INSTALL EXPANSION JOINT AT THE BACK OF WALK AND THE FACE OF THE WALL OR FOUNDATION. NO REMOVAL OF MATERIAL WITHIN 6" OF WALLS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL FROM ENGINEER.

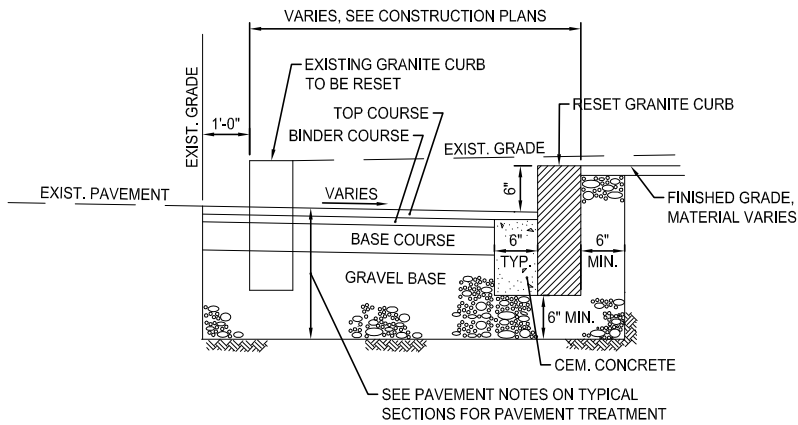


**0'-6" TRANSITION CURB DETAIL**  
NOT TO SCALE

TO BE USED AT ALL LOCATIONS WHERE VERTICAL GRANITE CURB ENDS INCLUDING BACK OF WALK CURBING

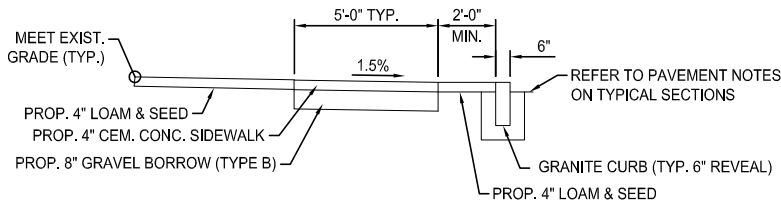


**1'-7" TRANSITION CURB DETAIL**  
NOT TO SCALE

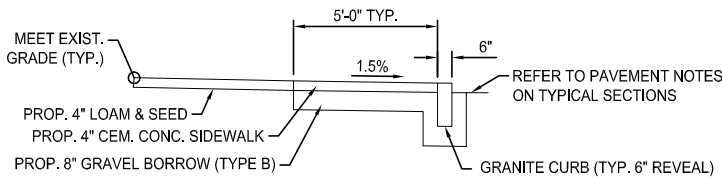


THE PROCEDURE SHOWN IS APPLICABLE ONLY IF THE CURB IS TO BE SET AFTER BASE AND/OR BINDER COURSE ARE IN PLACE, OTHERWISE CEMENT CONCRETE WILL BE ELIMINATED AND GRAVEL BROUGHT UP TO BOTTOM OF BASE COURSE.

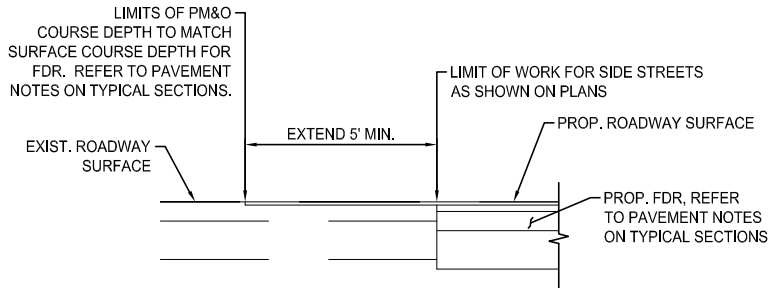
**RESET GRANITE CURB  
(FULL DEPTH CONSTRUCTION AND 6' MIN. WIDENING)**  
NOT TO SCALE



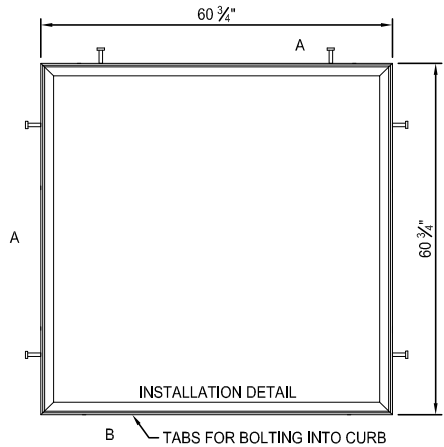
**SIDEWALK WITH GRASS BUFFER DETAIL**  
NOT TO SCALE



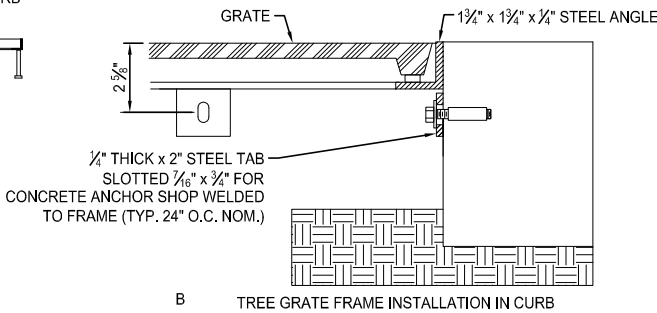
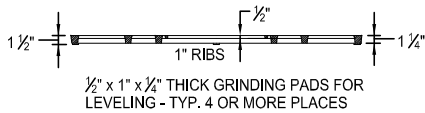
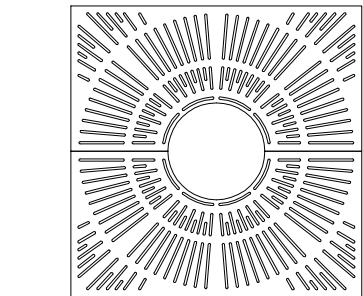
**SIDEWALK DETAIL**  
NOT TO SCALE



**PAVEMENT KEY-WAY AT LIMITS OF  
WORK FOR SIDE STREETS**  
NOT TO SCALE



**CAST IRON TREE FRAME AND GRATE**  
NOT TO SCALE



**TREE GRATE FRAME INSTALLATION IN CURB**

CONCRETE ANCHOR BOLT  
(BY INSTALLER)

REV. NO.	DATE	DRWN	CHKD	REMARKS

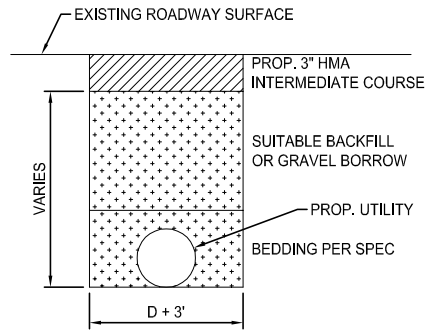
DESIGNED BY: S. MURPHY  
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SHEET CHK'D BY: S. MURPHY  
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75 State Street, Suite 701  
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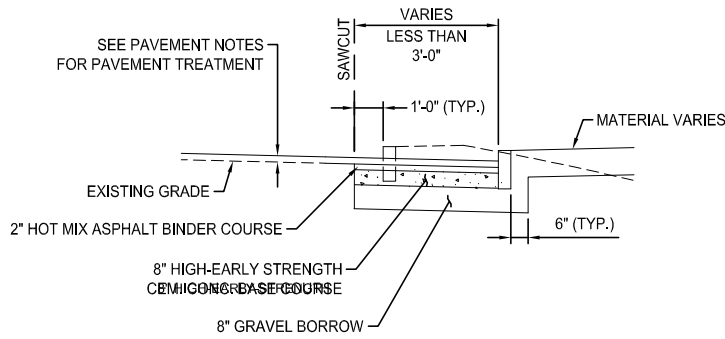
TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

**SIDEWALK/CURB CONSTRUCTION DETAILS**

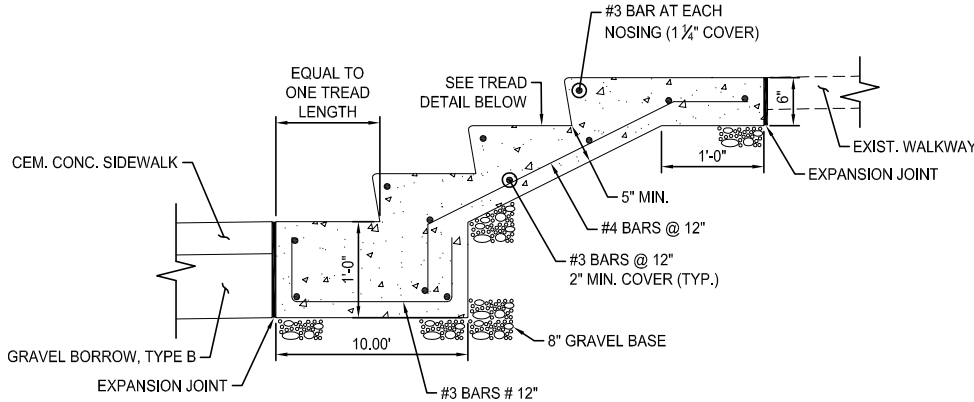
PROJECT NO. 0572-104636  
FILE NAME: HD (Construction Details)  
SHEET NO.  
**CD-1**



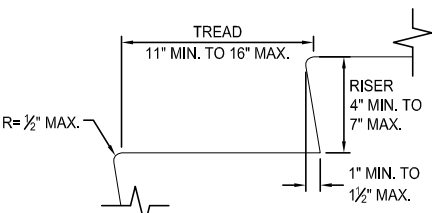
TEMPORARY PATCH  
NOT TO SCALE



TYPICAL ROADWAY WIDENING SECTION (<3'-0")  
NOT TO SCALE



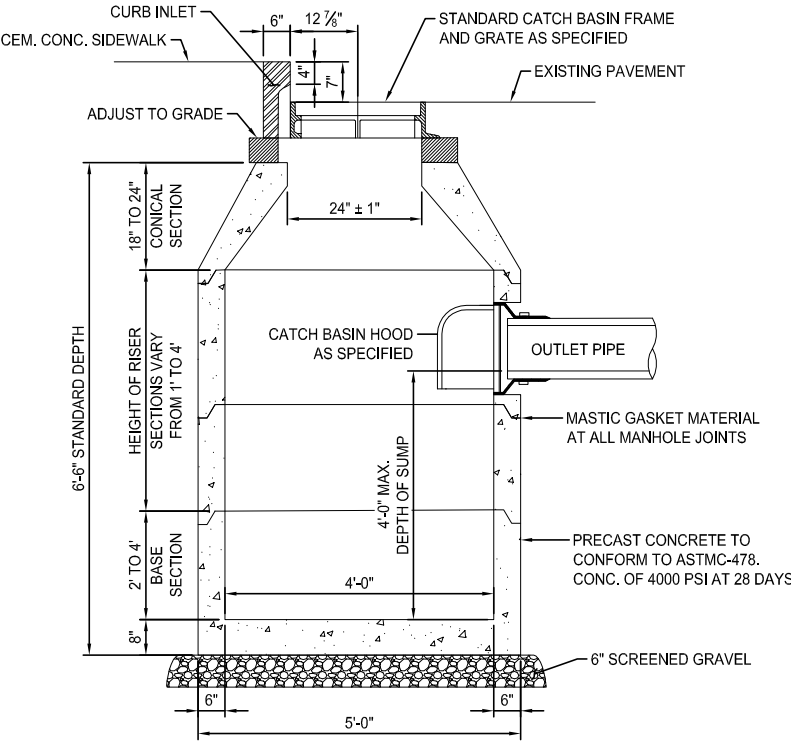
CONCRETE STEPS ELEVATION



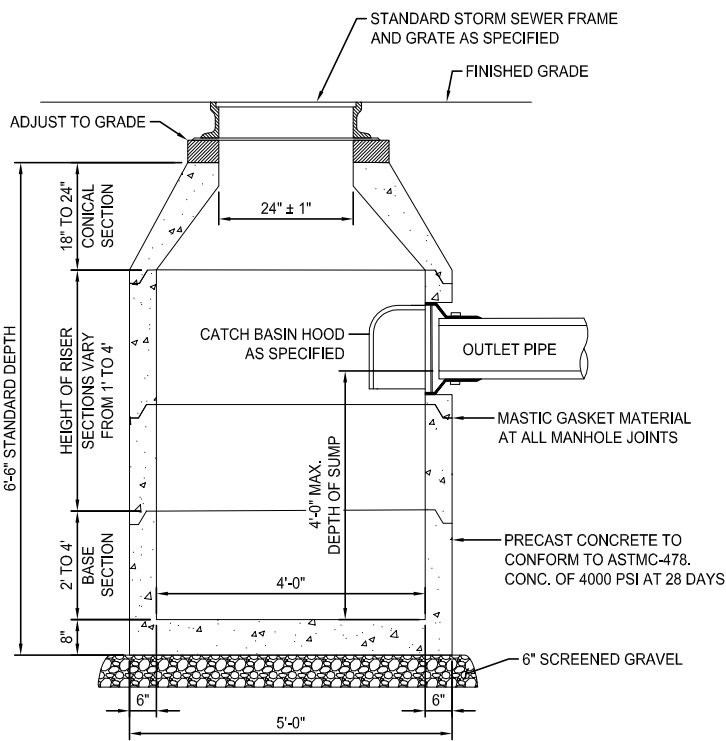
STAIR TREAD AND RISER DETAIL

CONCRETE STEPS DETAIL  
NOT TO SCALE

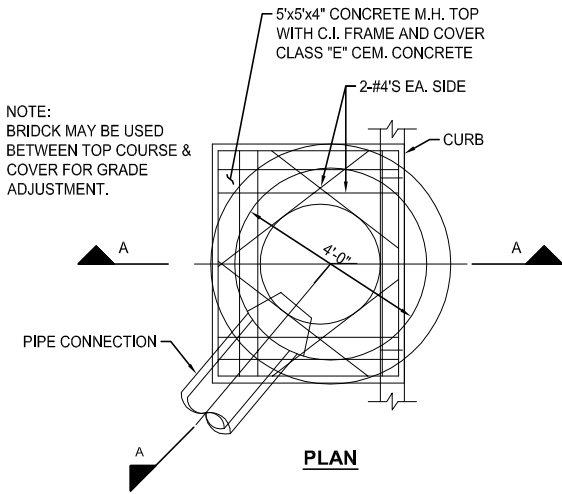
NOTES:  
CONCRETE: 3,000 PSI AT 28 DAYS  
REINFORCING STEEL: GRADE 60, ASTM A615  
TREAD FINISH: BROOM FINISH PARALLEL TO STEPS.



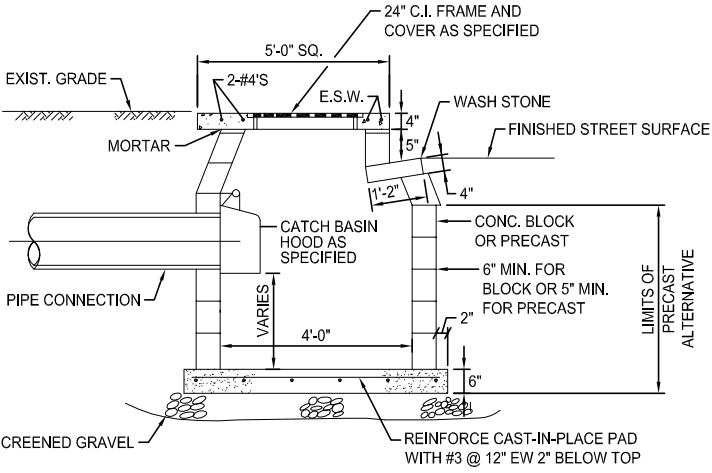
PRECAST CATCH BASIN (INSTALLED IN STREET)  
NOT TO SCALE



PRECAST STORM SEWER MANHOLE  
NOT TO SCALE



PLAN



SECTION A-A

STANDARD CATCH BASIN (INSTALLED IN SIDEWALK)  
NOT TO SCALE

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CDM  
Smith

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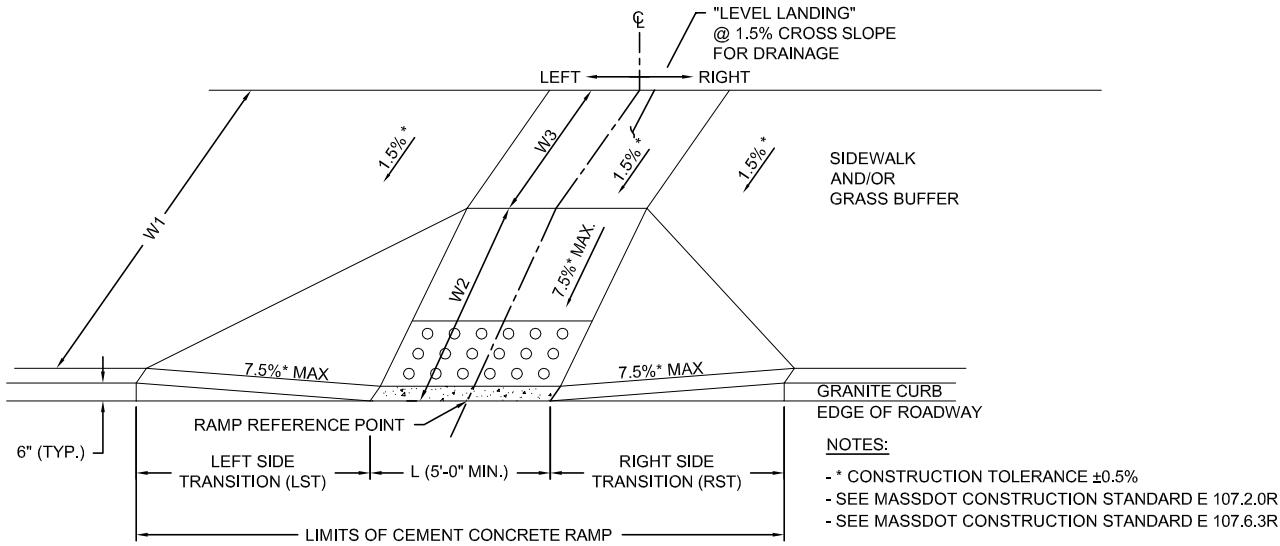
TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

DRAINAGE/MISC. CONSTRUCTION DETAILS

PROJECT NO. 0572-104636 FILE NAME: HD (Construction Details)
SHEET NO. CD-2

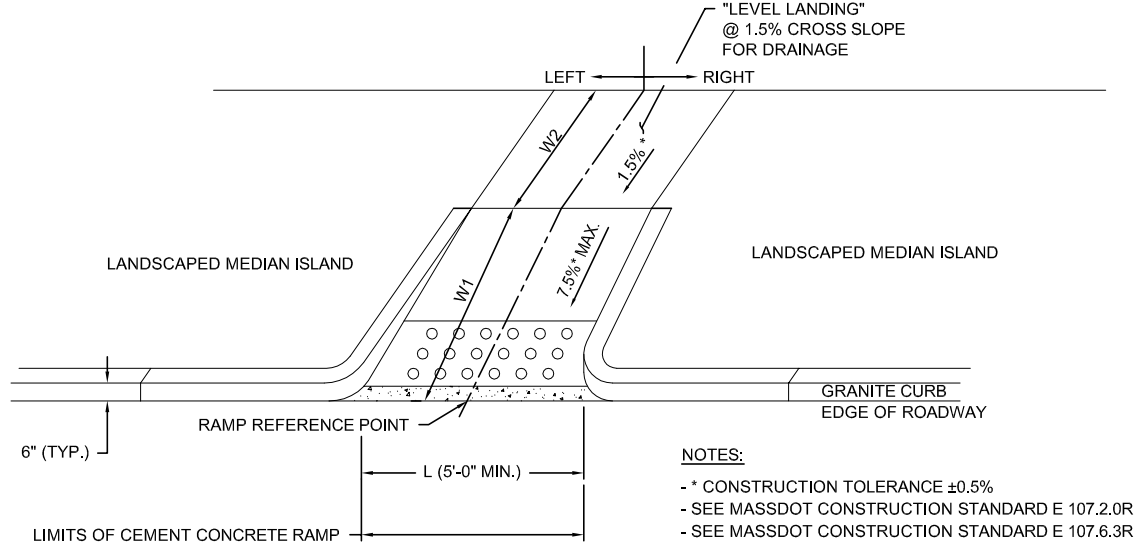


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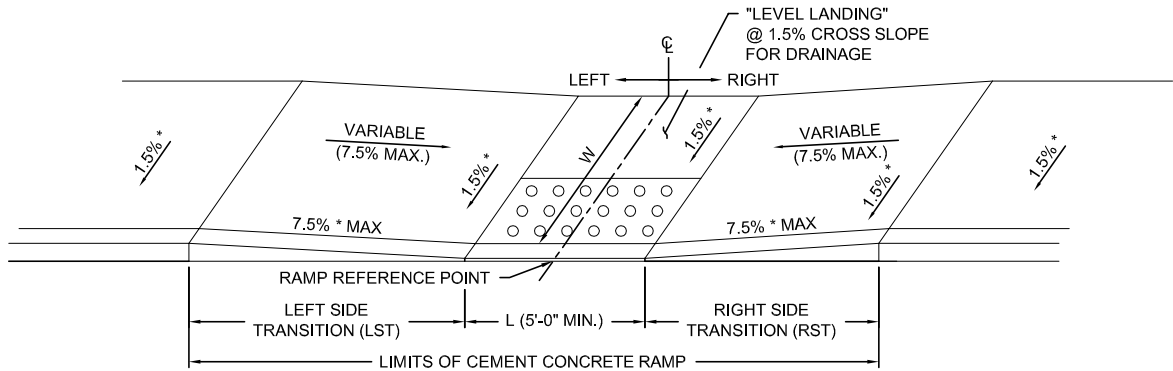
WHEELCHAIR RAMP PERPENDICULAR (SIDEWALK WIDTHS > 10'-4")

WCR#	STREET	RAMP REFERENCE POINT	W1	W2	W3	L	ROADWAY SLOPE	LST	RST
1	SLIP LANE (SOUTH)	50+60.17, CL	10.67'	6.67'	4.00'	5.00'	0.73%	7.67'	6.50'
5	EAST PLEASANT ST. (S)	17+13.00, 22.73' LT	10.67'	6.67'	4.00'	5.00'	1.51%	6.50'	9.00'
6	TRIANGLE ST.	24+66.35, 23.29' RT	10.67'	6.67'	4.00'	5.00'	1.42%	9.00'	6.50'
7	NORTH PLEASANT ST.	44+50.35, 23.00' RT	16.00'	6.67'	9.33'	5.00'	0.50%	7.67'	6.50'
8	EAST PLEASANT ST. (N)	34+64.90, 23.72' LT	13.58'	8.20'	5.38'	5.00'	-0.78%	7.67'	6.50'



WHEELCHAIR RAMP AT SLIP LANE MEDIAN ISLAND

WCR#	STREET	RAMP REFERENCE POINT	W1	W2	L	ROADWAY SLOPE
2	SLIP LANE (SOUTH)	50+60.17, 22.00' LT	6.50'	4.00'	5.00'	0.73%
3	EAST PLEASANT ST. (S)	17+10.67, 18.75' RT	6.50'	4.00'	5.00'	1.51%
4	TRIANGLE ST.	24+74.11, 19.63' LT	6.50'	4.00'	5.00'	1.42%



WHEELCHAIR RAMP PERPENDICULAR (SIDEWALK WIDTHS < 10'-4")

WCR#	STREET	RAMP REFERENCE POINT	W	L	ROADWAY SLOPE	LST	RST
9	SLIP LANE (NORTH)	60+39.10, CL	5.00'	5.00'	-2.17%	11.00'	6.50'

- NOTES:
- UNLESS OTHERWISE NOTED, THE LOW SIDE TRANSITION LENGTH IS 6'-6" AND MAY BE EITHER ON THE RIGHT OR LEFT SIDE OF THE RAMP
  - FOR HIGH SIDE TRANSITION LENGTH SEE MASSDOT CONSTRUCTION STANDARD E 107.9.0
  - FOR DETECTABLE WARNING PANEL DETAILS REFER TO MASSDOT CONSTRUCTION STANDARD 107.6.5R

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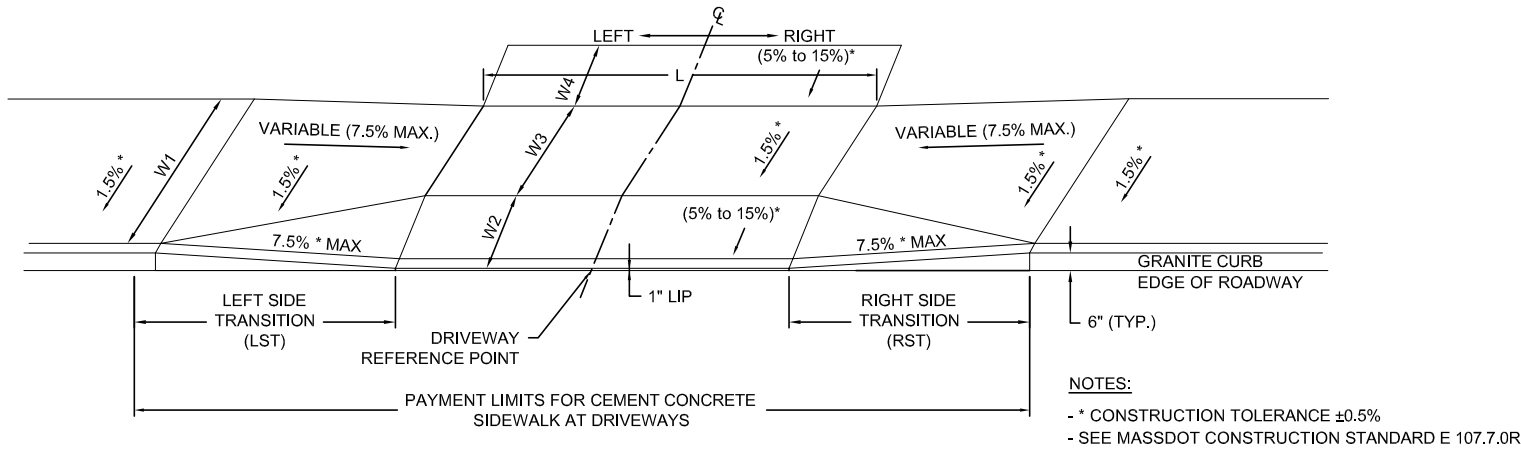
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TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

WHEELCHAIR RAMP DETAILS

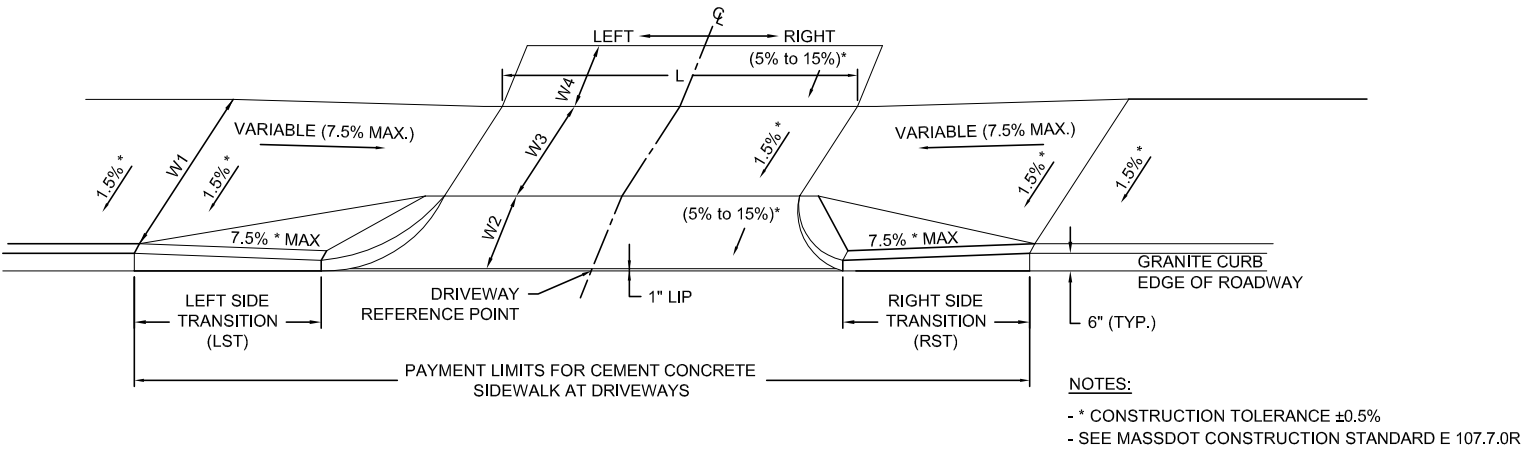
PROJECT NO. 0572-104636  
FILE NAME: HD (Driveway Details)  
SHEET NO.  
DD-1

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SIDEWALK THROUGH DRIVEWAY WITHOUT CURB RETURNS

DW#	STREET	RAMP REFERENCE POINT	W1	W2	W3	W4	L	ROADWAY SLOPE	LST	RST
1	EAST PLEASANT ST. (N)	34+15.64, 19.67' LT	16.60'	11.22'	5.38'	0.00'	23.33'	-1.47%	9.00'	6.50'



SIDEWALK THROUGH DRIVEWAY WITH CURB RETURNS

DW#	STREET	RAMP REFERENCE POINT	W1	W2	W3	W4	L	ROADWAY SLOPE	LST	RST
2	NORTH PLEASANT ST.	42+77.02, 17.00' LT	5.50'	2.00'	3.50'	7.50'	20.33'	1.26%	6.50'	9.00'

- NOTES:
1. UNLESS OTHERWISE NOTED, THE LOW SIDE TRANSITION LENGTH IS 6'-6" AND MAY BE EITHER ON THE RIGHT OR LEFT SIDE OF THE RAMP
  2. FOR HIGH SIDE TRANSITION LENGTH SEE MASSDOT CONSTRUCTION STANDARD E 107.9.0
  3. FOR DETECTABLE WARNING PANEL DETAILS REFER TO MASSDOT CONSTRUCTION STANDARD 107.6.5R

REV. NO.	DATE	DRWN	CHKD	REMARKS

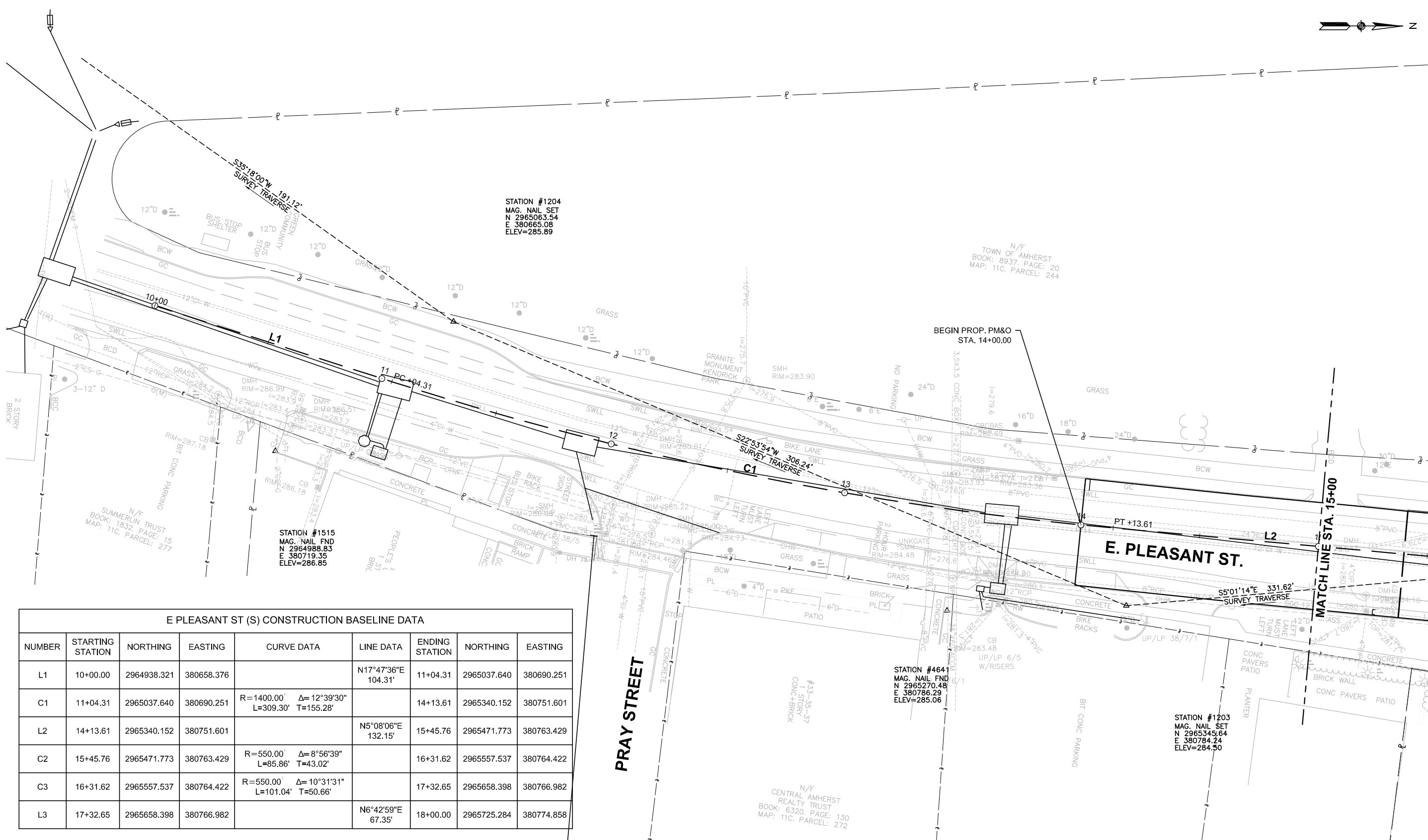
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TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

DRIVEWAY DETAILS

PROJECT NO. 0572-104636  
FILE NAME: HD (Driveway Details)  
SHEET NO.  
**DD-2**



E PLEASANT ST (S) CONSTRUCTION BASELINE DATA

NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L1	10+00.00	2964938.321	380658.376		N17°47'36"E 104.31'	11+04.31	2965037.640	380690.251
C1	11+04.31	2965037.640	380690.251	R=1400.00' Δ=12°39'30" L=309.30' T=155.28'		14+13.61	2965340.152	380751.601
L2	14+13.61	2965340.152	380751.601		N5°08'06"E 132.15'	15+45.76	2965471.773	380763.429
C2	15+45.76	2965471.773	380763.429	R=550.00' Δ=8°56'39" L=85.86' T=43.02'		16+31.62	2965557.537	380764.422
C3	16+31.62	2965557.537	380764.422	R=550.00' Δ=10°31'31" L=101.04' T=50.66'		17+32.65	2965658.398	380766.982
L3	17+32.65	2965658.398	380766.982		N6°42'59"E 67.35'	18+00.00	2965725.284	380774.858

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TOWN OF AMHERST, MA  
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TASK ORDER #15

CONSTRUCTION BASELINE TIES

PROJECT NO. 0572-104636 FILE NAME: HD (Baseline Ties)
SHEET NO. BT-1

SLIP LANE - SOUTH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C6	50+00.00	2965552.265	380782.776	R=60.00' Δ=77°53'15" L=81.56' T=48.49'		50+81.56	2965613.449	380826.885
C7	50+81.56	2965613.449	380826.885	R=20.00' Δ=56°37'59" L=19.77' T=10.78'		51+01.33	2965609.166	380845.369

SLIP LANE - NORTH CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C8	60+00.00	2965856.092	380783.849	R=40.00' Δ=21°18'32" L=14.88' T=7.53'		60+14.88	2965841.977	380779.428
C9	60+14.88	2965841.977	380779.428	R=60.00' Δ=51°07'59" L=53.55' T=28.70'		60+68.42	2965811.254	380737.739
C10	60+68.42	2965811.254	380737.739	R=20.00' Δ=54°46'01" L=19.12' T=10.36'		60+87.54	2965816.498	380720.104

STATION #1200  
MAG. NAIL FND  
N 2965675.99  
E 380755.22  
ELEV=286.86

BENCHMARK# 2687  
RIVET IN SOUTHEAST  
CORNER OF THE  
CONCRETE PAD FOR  
TRAFFIC CONTROL BOX  
EL=288.10'

STATION #2257  
MAG. NAIL FND  
N 2965611.17  
E 380837.54  
ELEV=284.77

STATION #1201  
MAG. NAIL SET  
N 2965904.59  
E 380835.76  
ELEV=289.66

N/F  
XXX  
BOOK: XXX. PAGE: XXX  
MAP: 11C. PARCEL: 261

N/F  
BAY BANK VALLEY TRUST CO  
BOOK: 2254. PAGE: 333  
MAP: 11C. PARCEL: 322

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

## CONSTRUCTION BASELINE TIES

<b>PROJECT NO.</b>	0572-104636
<b>FILE NAME:</b>	HD (Baseline Ties)

**SHEET NO.**  
**BT-2**

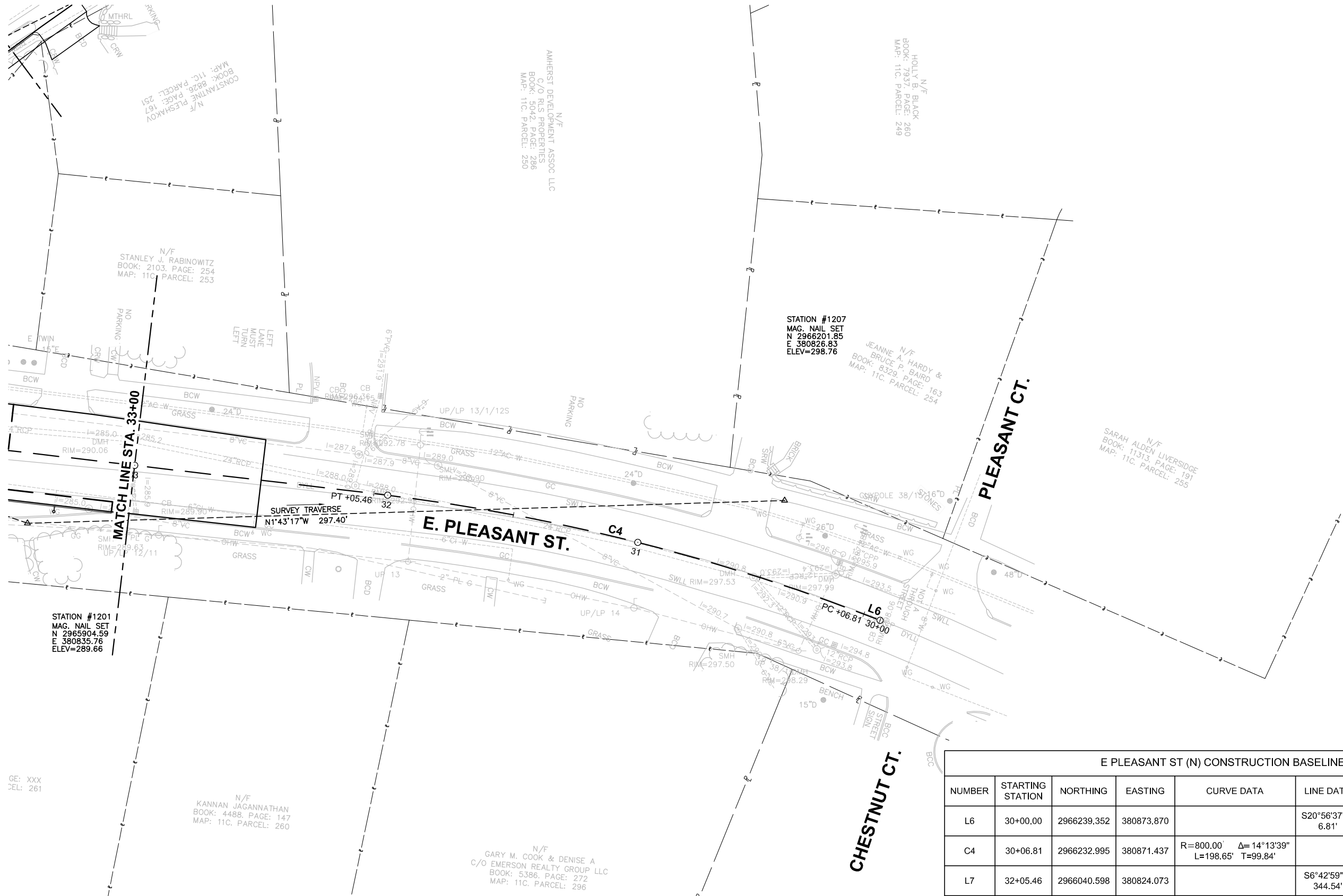
DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALSUS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

**CDM  
Smith**  
75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

REV. NO.	DATE	DRWN	CHKD	REMARKS

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E PLEASANT ST (N) CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L6	30+00.00	2966239.352	380873.870		S20°56'37"W 6.81'	30+06.81	2966232.995	380871.437
C4	30+06.81	2966232.995	380871.437	R=800.00' Δ=14°13'39" L=198.65' T=99.84'		32+05.46	2966040.598	380824.073
L7	32+05.46	2966040.598	380824.073		S6°42'59"W 344.54'	35+50.00	2965698.420	380783.778

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	S. MURPHY
DRAWN BY:	A. DOMAZET
SHEET CHK'D BY:	S. MURPHY
CROSS CHK'D BY:	J. BALKUS
APPROVED BY:	L. SHERMAN
DATE:	AUGUST 2015

**CDM  
Smith**

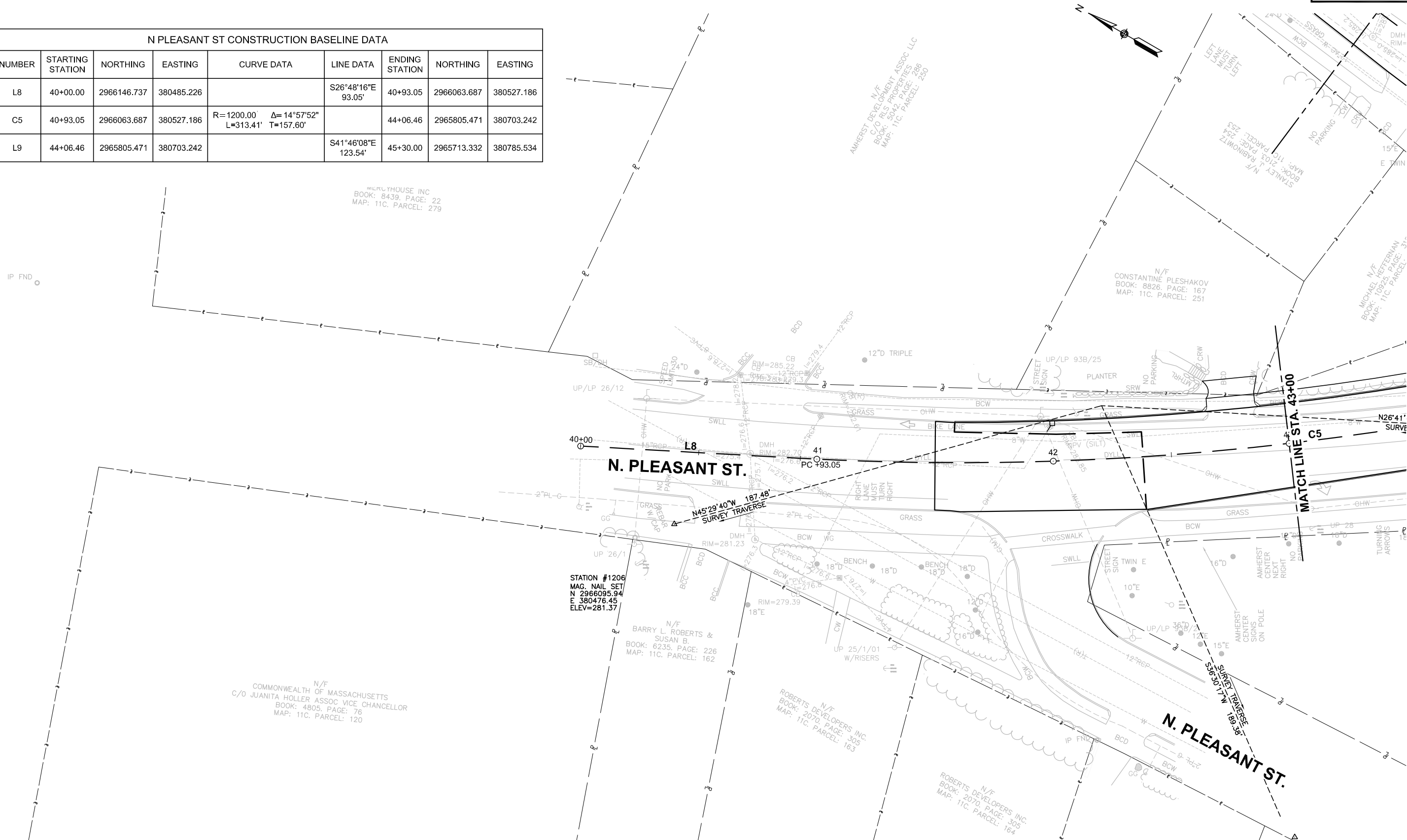
75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

CONSTRUCTION BASELINE TIES

PROJECT NO.	0572-104636
FILE NAME:	HD (Baseline Ties)
SHEET NO.	BT-3

N PLEASANT ST CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L8	40+00.00	2966146.737	380485.226		S26°48'16"E 93.05'	40+93.05	2966063.687	380527.186
C5	40+93.05	2966063.687	380527.186	R=1200.00' Δ= 14°57'52" L=313.41' T=157.60"		44+06.46	2965805.471	380703.242
L9	44+06.46	2965805.471	380703.242		S41°46'08"E 123.54'	45+30.00	2965713.332	380785.534

[illegible]

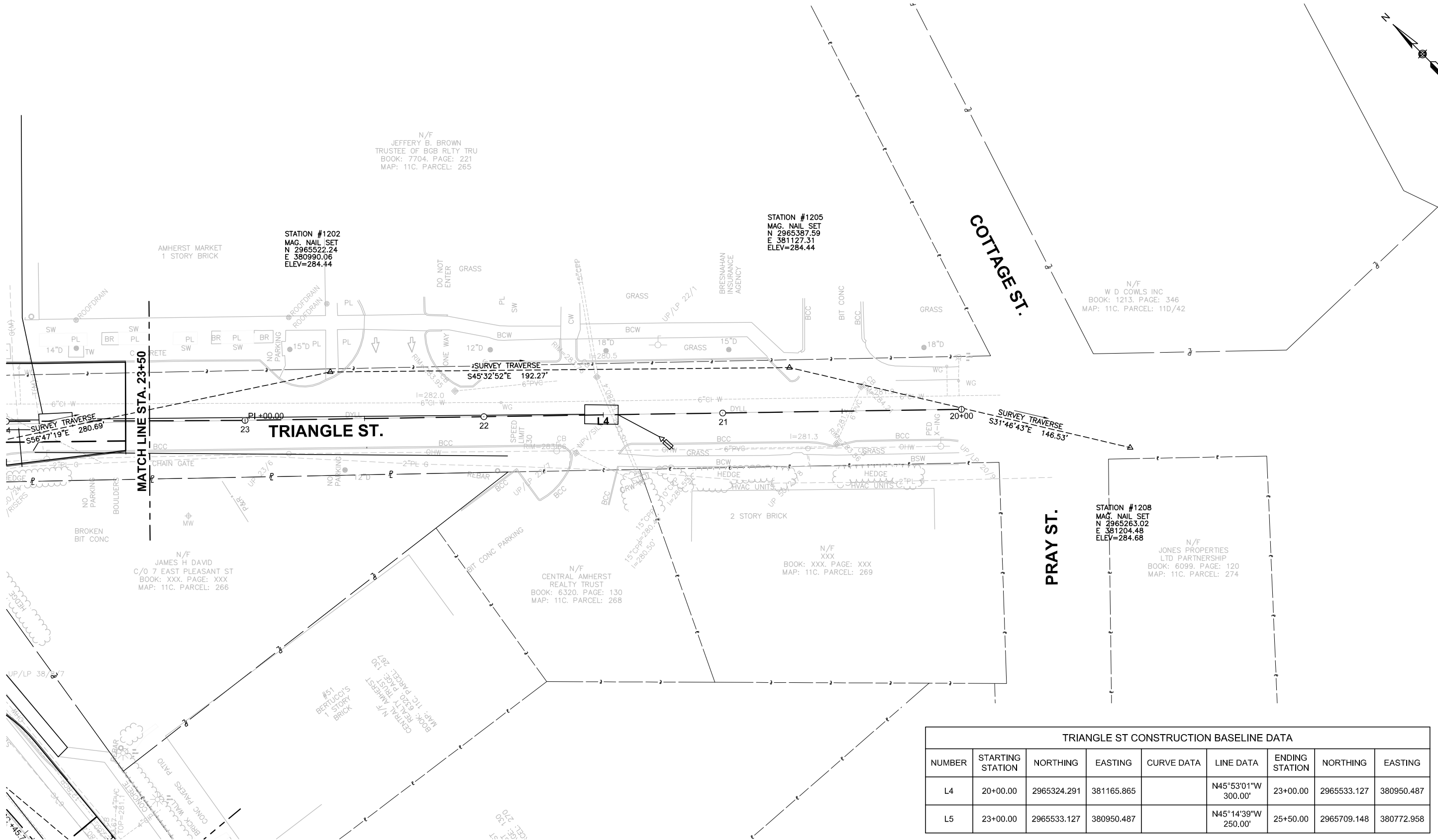
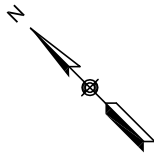
DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALSUS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

**CDM  
Smith**  
75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

## CONSTRUCTION BASELINE TIES

<b>PROJECT NO.</b> 0572-104636
<b>FILE NAME:</b> HD (Baseline Ties)
<b>SHEET NO.</b> <b>BT-4</b>



TRIANGLE ST CONSTRUCTION BASELINE DATA								
NUMBER	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
L4	20+00.00	2965324.291	381165.865		N45°53'01"W 300.00'	23+00.00	2965533.127	380950.487
L5	23+00.00	2965533.127	380950.487		N45°14'39"W 250.00'	25+50.00	2965709.148	380772.958

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REV. NO.	DATE	DRWN	CHKD	REMARKS

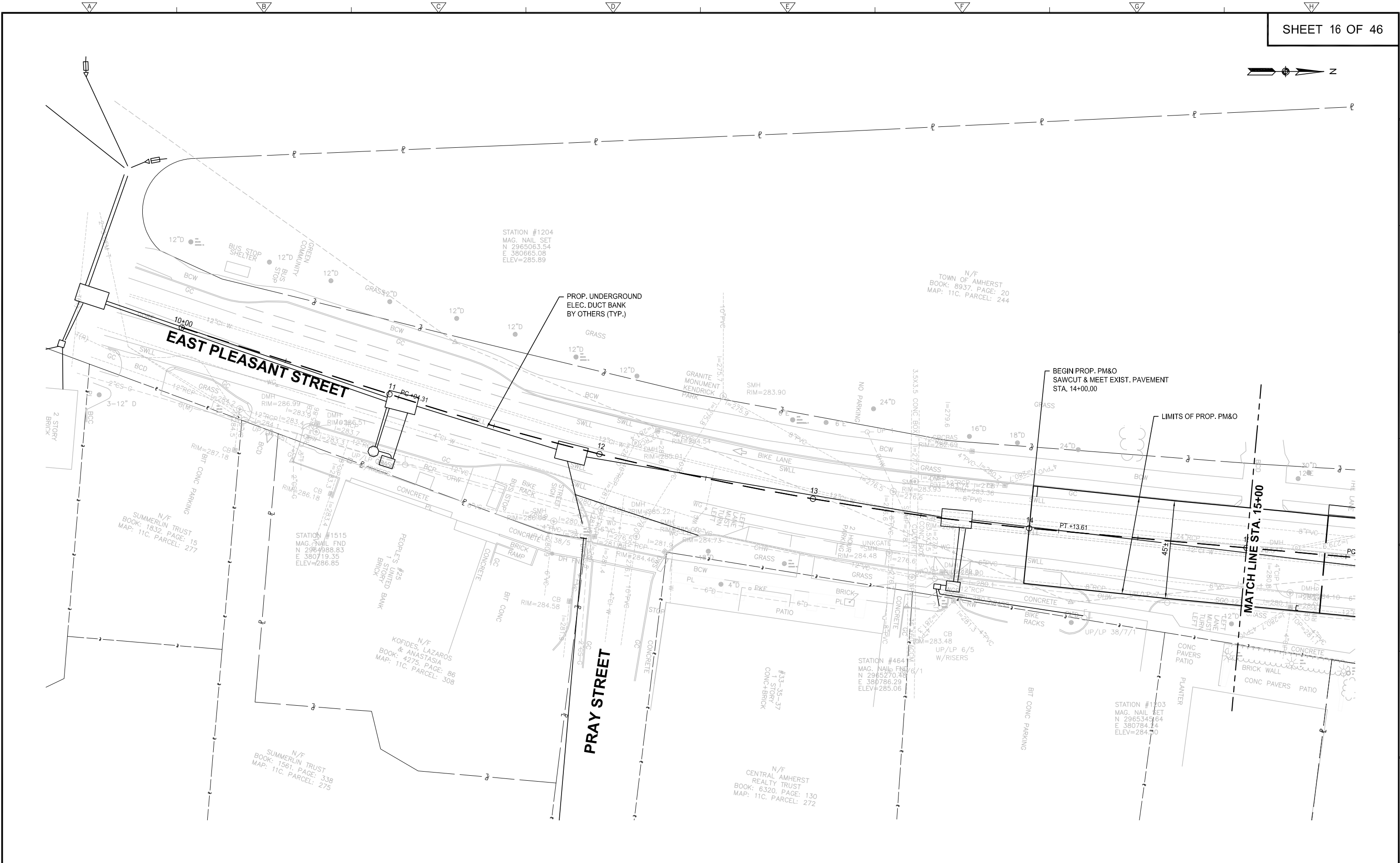
DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALSUKS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

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75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

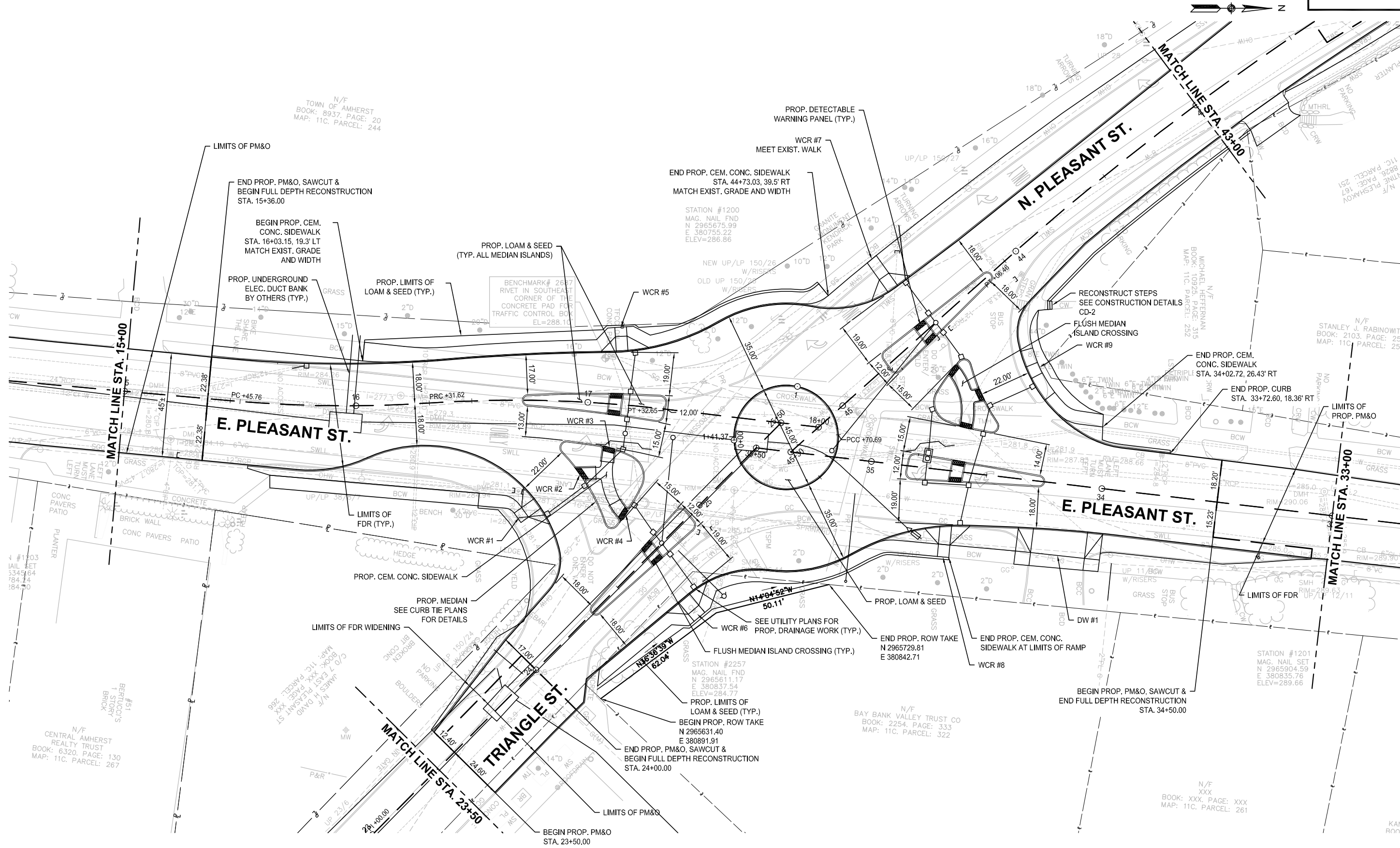
CONSTRUCTION BASELINE TIES

PROJECT NO. 0572-104636  
FILE NAME: HD (Baseline Ties)  
SHEET NO.  
BT-5



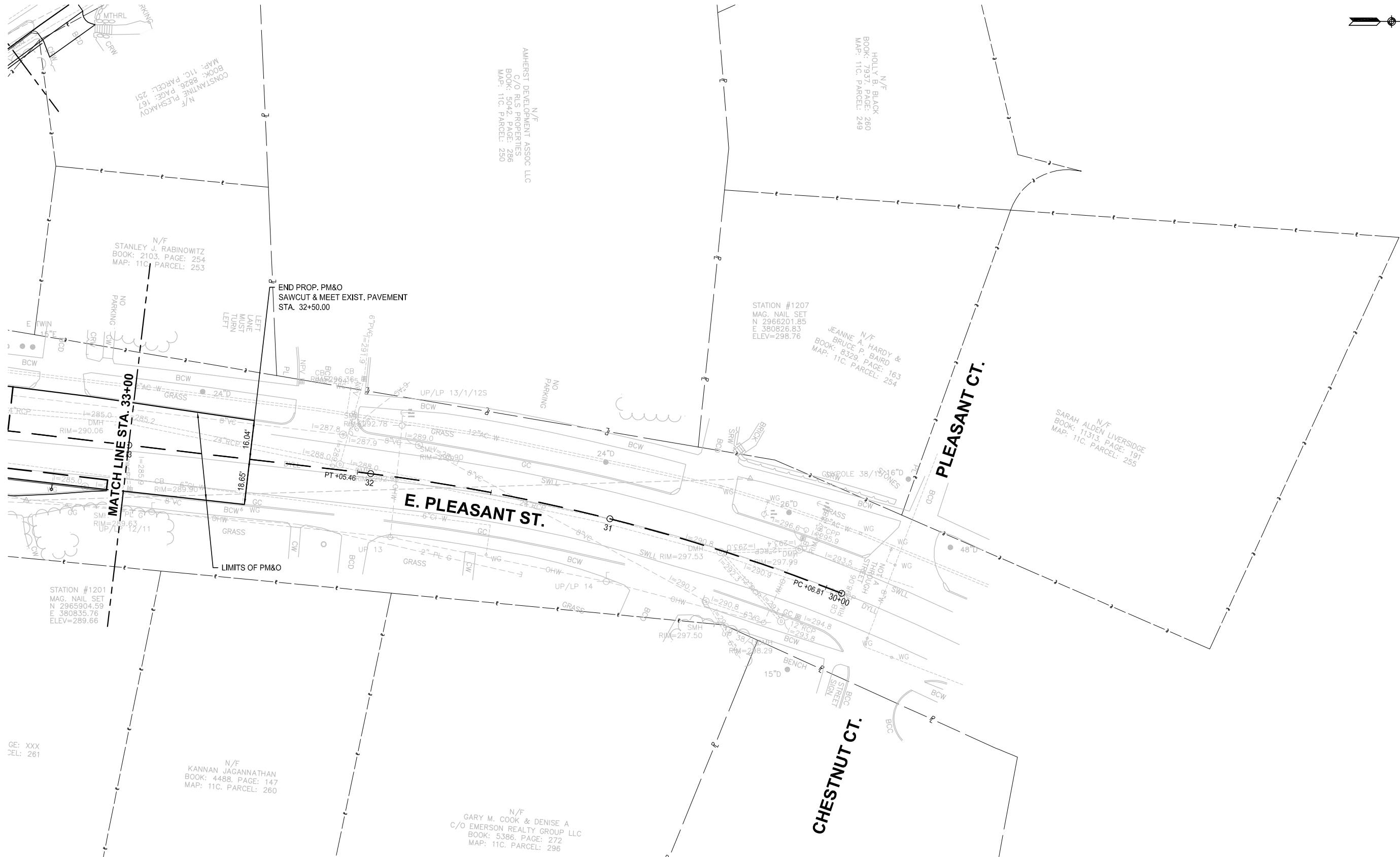
					DESIGNED BY: <u>S. MURPHY</u>	<div>CDM Smith</div> <div>75 State Street, Suite 701 Boston, MA 02109 Tel: (617) 452-6000</div>	TOWN OF AMHERST, MA		CONSTRUCTION PLANS	PROJECT NO. 0572-104636
					DRAWN BY: <u>A. DOMAZET</u>		EAST PLEASANT ST. AT TRIANGLE ST.			FILE NAME: HD (Construction Plan)
					SHEET CHK'D BY: <u>S. MURPHY</u>		TASK ORDER #15			SHEET NO.
					CROSS CHK'D BY: <u>J. BALSUKS</u>					CP-1
					APPROVED BY: <u>L. SHERMAN</u>					
REV. NO.	DATE	DRWN	CHKD	REMARKS	DATE: <u>AUGUST 2015</u>					

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					DESIGNED BY: S. MURPHY	<div>CDM Smith</div> <div>75 State Street, Suite 701 Boston, MA 02109 Tel: (617) 452-6000</div>	TOWN OF AMHERST, MA EAST PLEASANT ST. AT TRIANGLE ST. TASK ORDER #15	CONSTRUCTION PLANS	PROJECT NO. 0572-104636 FILE NAME: HD (Construction Plan)
					DRAWN BY: A. DOMAZET				
					SHEET CHK'D BY: S. MURPHY				
					CROSS CHK'D BY: J. BALSUKS				
					APPROVED BY: L. SHERMAN				
REV. NO.	DATE	DRWN	CHKD	REMARKS	DATE: AUGUST 2015				SHEET NO. CP-2

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REV. NO.	DATE	DRWN	CHKD	REMARKS

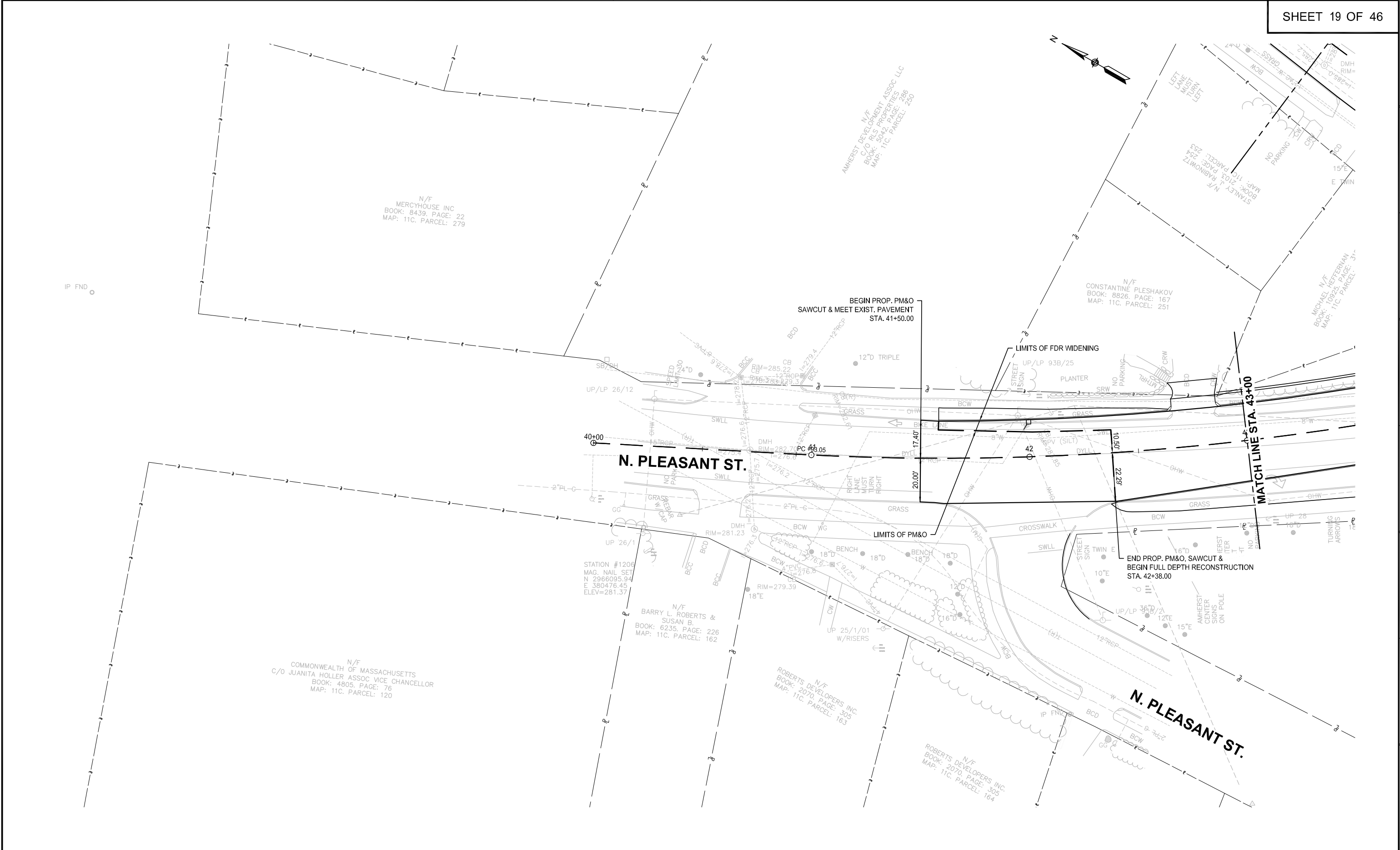
DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALKUS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015


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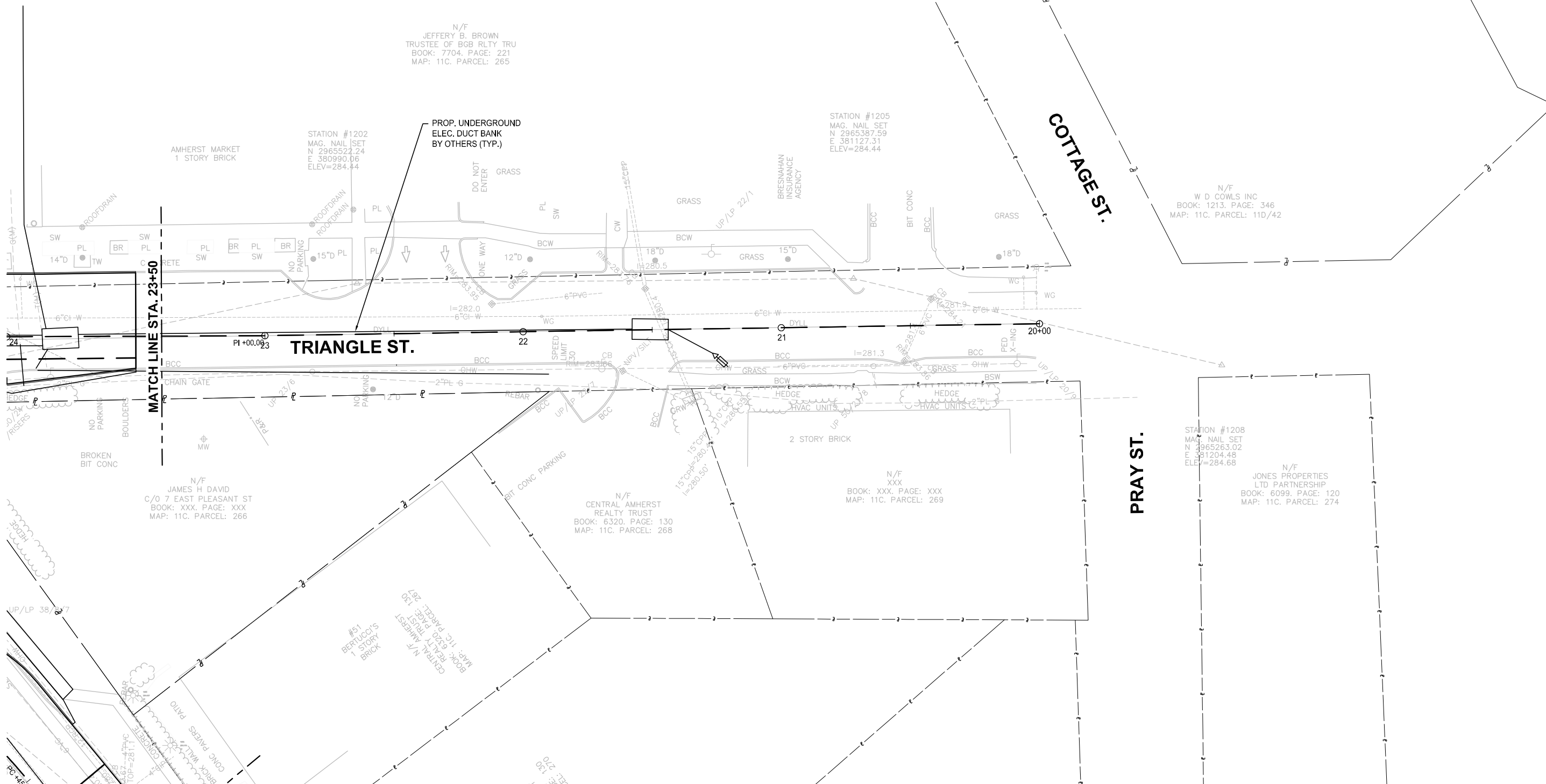
TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

CONSTRUCTION PLANS

PROJECT NO. 0572-104636  
FILE NAME: HD (Construction Plan)  
SHEET NO.  
**CP-3**



					DESIGNED BY: <u>S. MURPHY</u>	 75 State Street, Suite 701 Boston, MA 02109 Tel: (617) 452-6000	TOWN OF AMHERST, MA  EAST PLEASANT ST. AT TRIANGLE ST. TASK ORDER #15	CONSTRUCTION PLANS	PROJECT NO. 0572-104636
					DRAWN BY: <u>A. DOMAZET</u>				FILE NAME: HD (0450 Construction)
					SHEET CHK'D BY: <u>S. MURPHY</u>				
					CROSS CHK'D BY: <u>J. BALSUKS</u>				
REV. NO.	DATE	DRWN	CHKD	REMARKS	APPROVED BY: <u>L. SHERMAN</u>				SHEET NO.
					DATE: <u>AUGUST 2015</u>				<b>CP-4</b>



DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALSUS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

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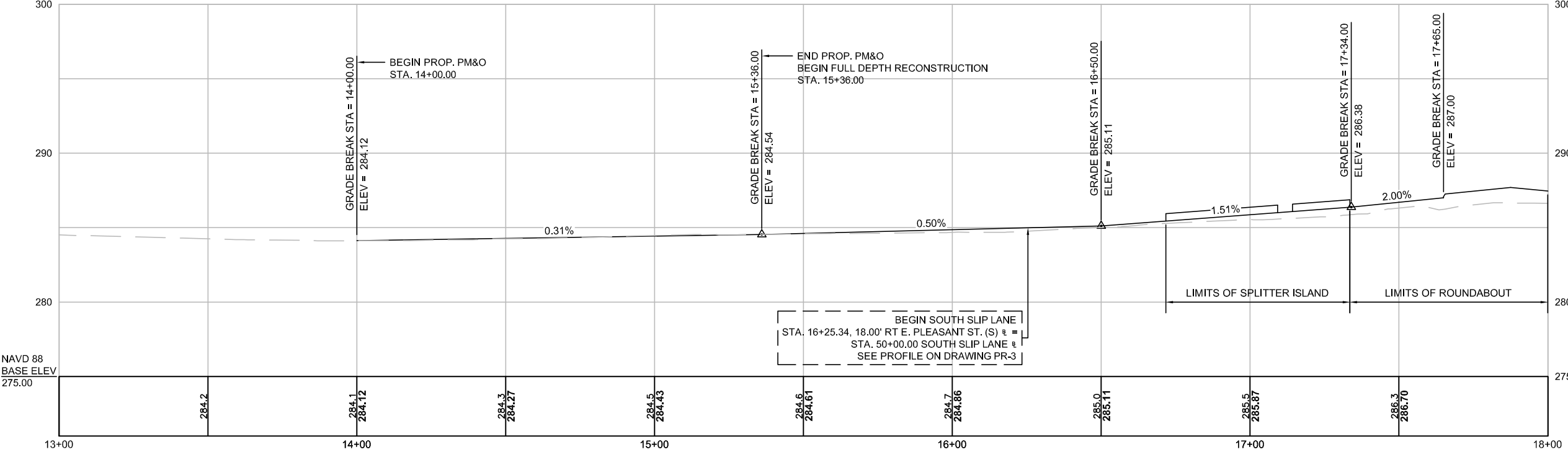
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

## CONSTRUCTION PLANS

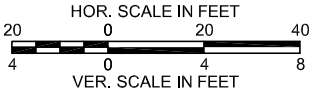
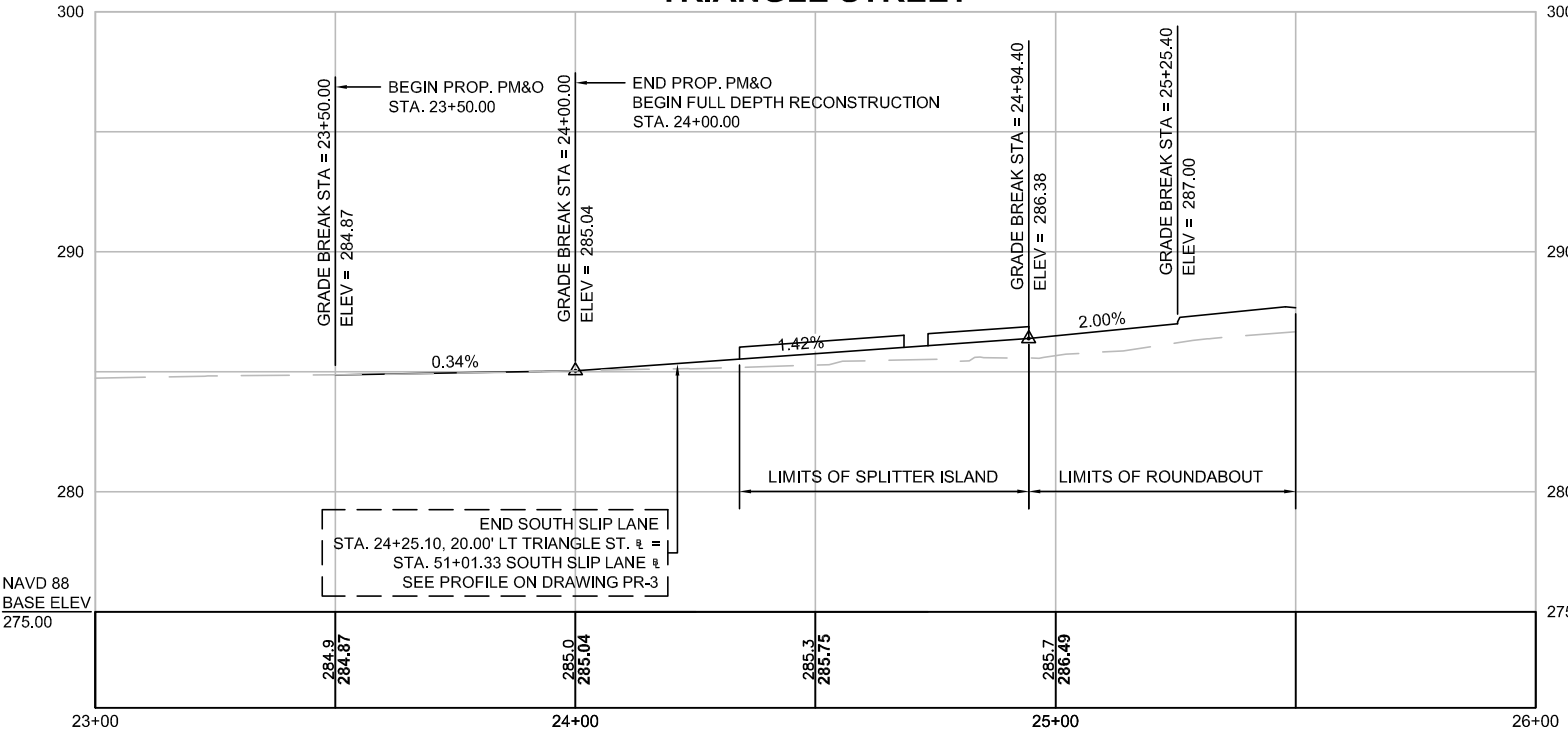
PROJECT NO.	0572-104636
FILE NAME	HD (Construction Plan)
SHEET NO.	<b>CP-5</b>



EAST PLEASANT STREET (SOUTH)



TRIANGLE STREET



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALKUS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

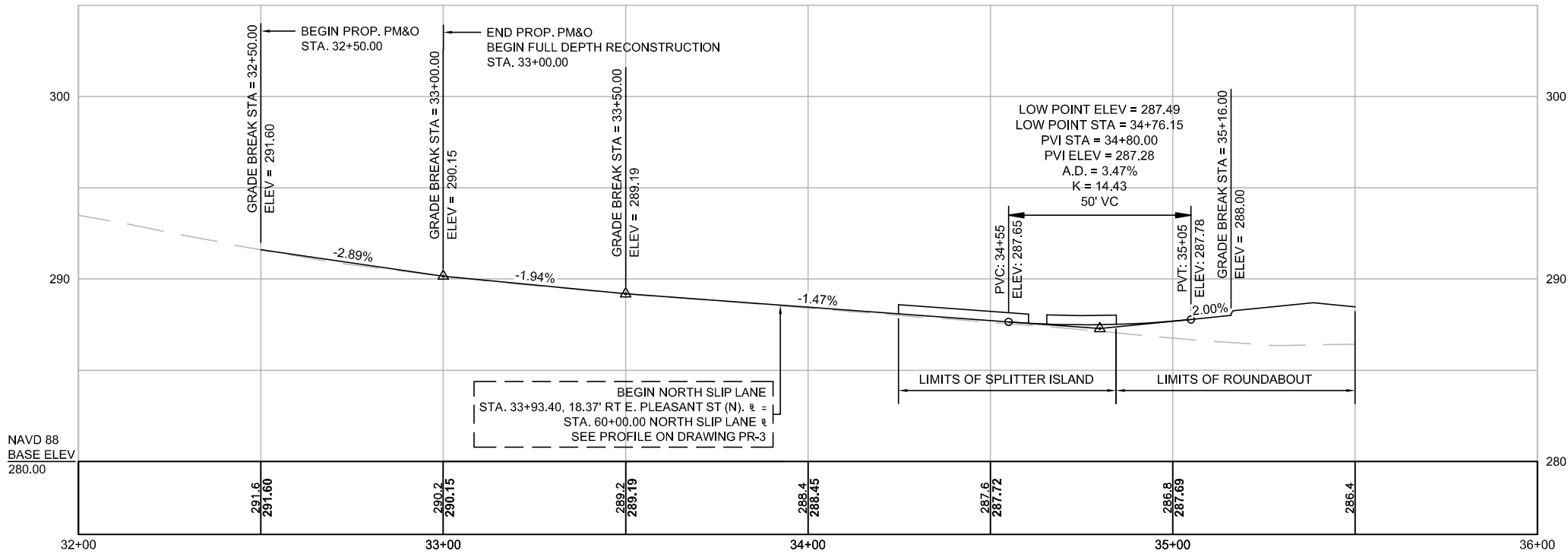
**CDM Smith**  
75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

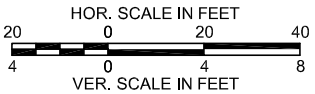
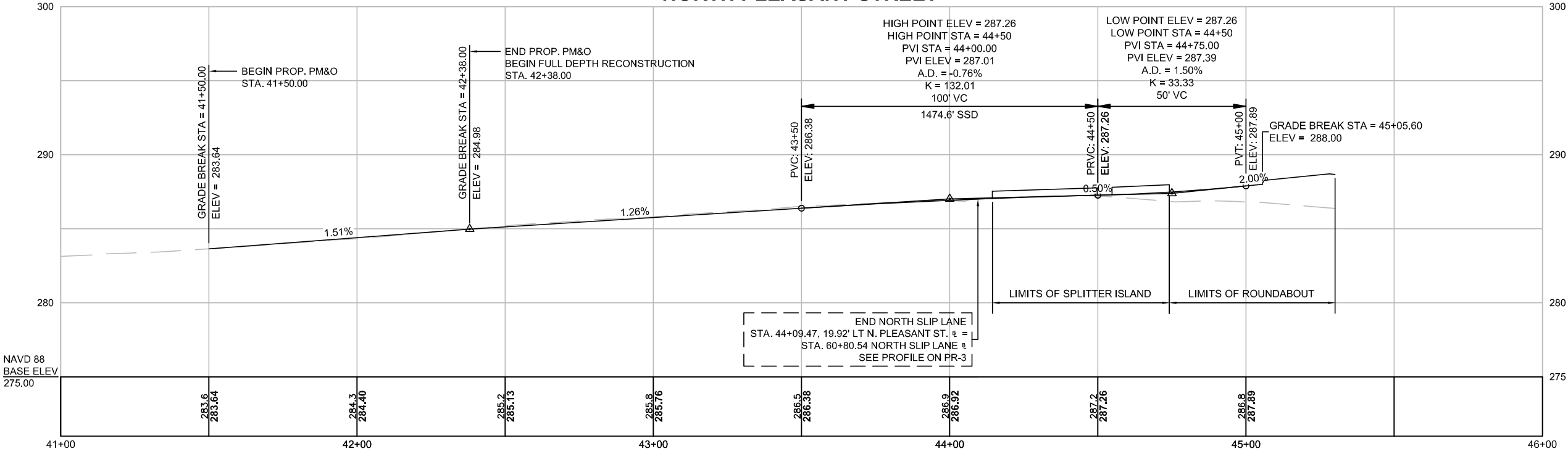
PROFILES

PROJECT NO. 0572-104636  
FILE NAME: HD (Profiles)  
SHEET NO.  
**PR-1**

EAST PLEASANT STREET (NORTH)



NORTH PLEASANT STREET



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALSUKS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015



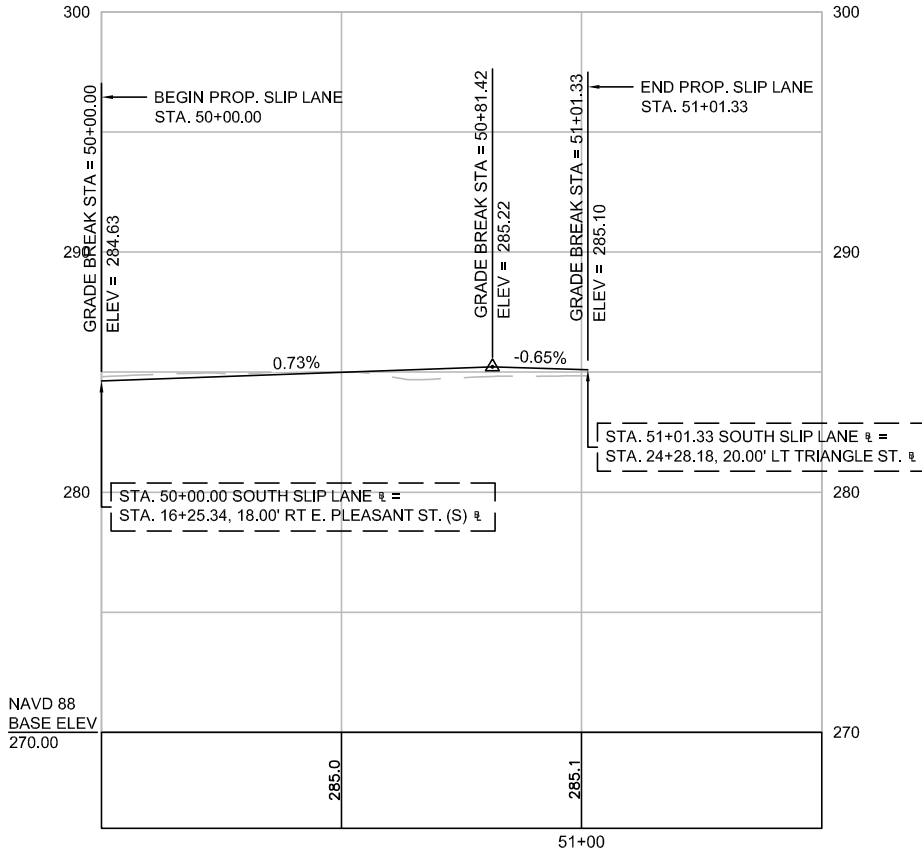
TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

PROFILES

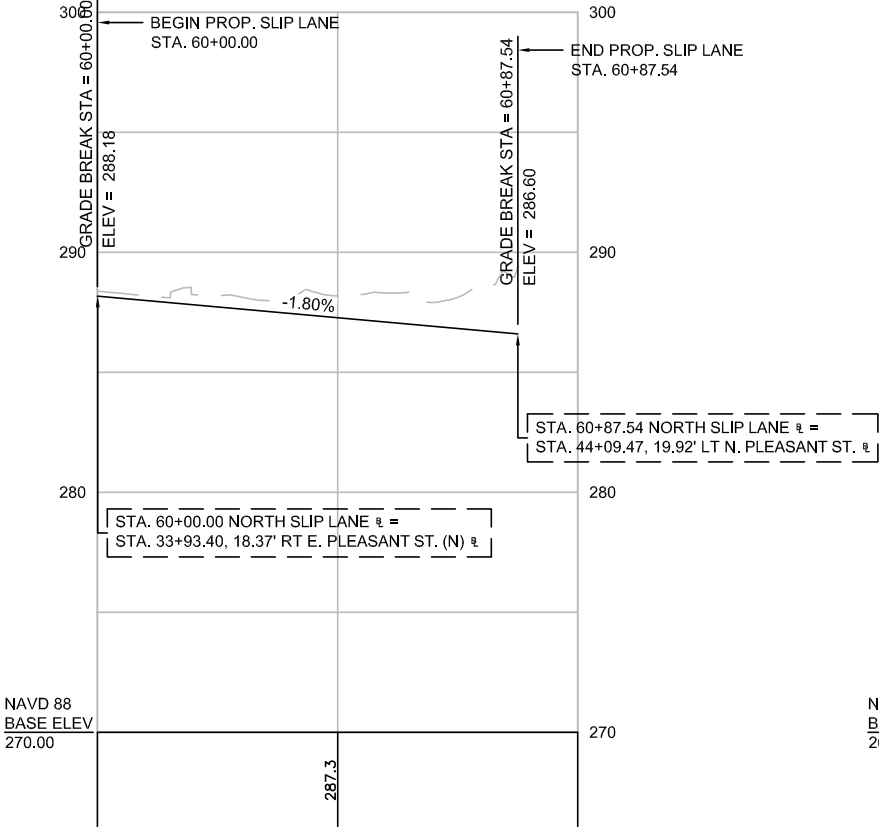
PROJECT NO. 0572-104636  
FILE NAME: HD (Profiles)  
SHEET NO.  
PR-2

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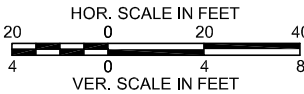
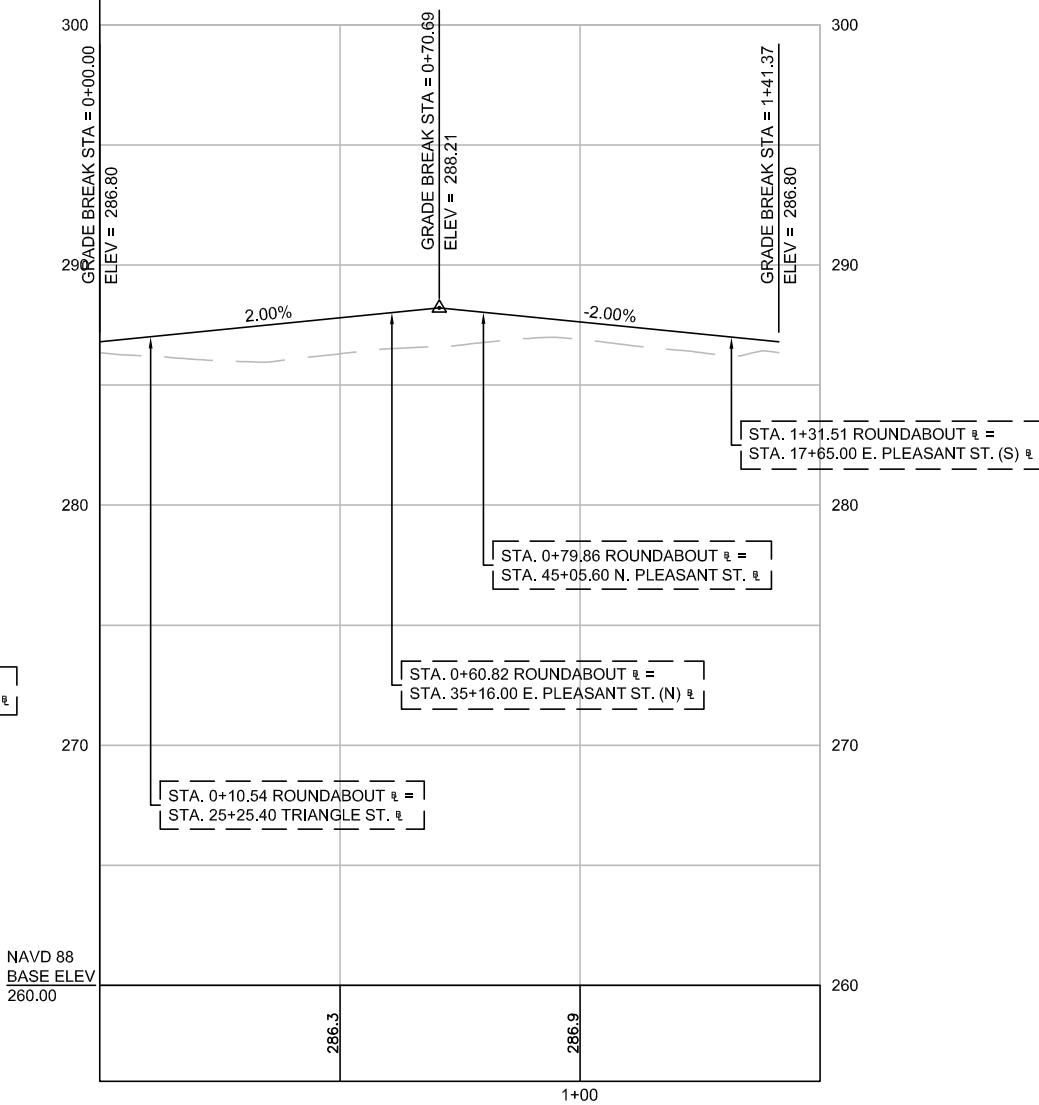
SOUTH SLIP LANE



SOUTH SLIP LANE



ROUNDAABOUT INTERIOR  
CURB LINE PROFILE



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALKUS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

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TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

PROFILES

PROJECT NO. 0572-104636  
FILE NAME: HD (Profiles)  
SHEET NO.  
**PR-3**



STATION #1204  
MAG. NAIL SET  
N 2965063.54  
E 380665.08  
ELEV=285.89

N/F  
TOWN OF AMHERST  
BOOK: 8937, PAGE: 20  
MAP: 11C, PARCEL: 244

BEGIN PROP. PM&O  
STA. 14+00.00

LIMITS OF PROP. PM&O

E. PLEASANT ST.

MATCH LINE STA. 15+00

N/F  
SUMMERLIN TRUST  
BOOK: 1832, PAGE: 15  
MAP: 11C, PARCEL: 277

STATION #1515  
MAG. NAIL FND  
N 2964988.83  
E 380719.35  
ELEV=286.85

N/F  
KOFIDES, LAZAROS  
& ANASTASIA  
BOOK: 4273, PAGE: 86  
MAP: 11C, PARCEL: 308

N/F  
SUMMERLIN TRUST  
BOOK: 1561, PAGE: 338  
MAP: 11C, PARCEL: 275

PRAY STREET

STATION #464  
MAG. NAIL FND  
N 2965270.48  
E 380786.29  
ELEV=285.06

N/F  
CENTRAL AMHERST  
REALTY TRUST  
BOOK: 6320, PAGE: 130  
MAP: 11C, PARCEL: 272

STATION #1203  
MAG. NAIL SET  
N 2965345.64  
E 380784.24  
ELEV=284.50

NOTE: EXISTING AND PROPOSED UTILITIES NOT  
SHOWN FOR CLARITY.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALKUS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

**CDM  
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75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

CURB TIE PLANS

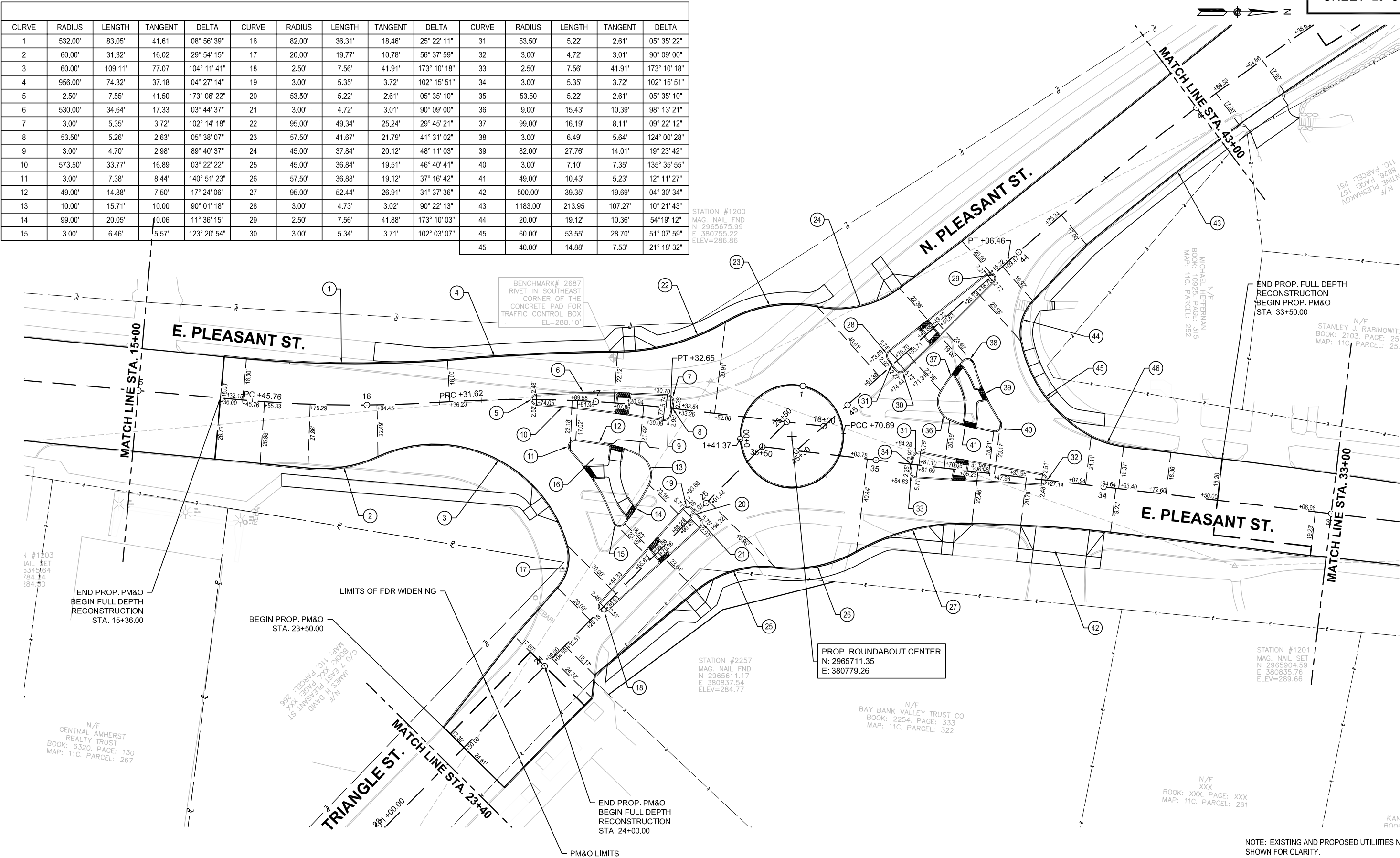
PROJECT NO. 0572-104636  
FILE NAME: HD (Curb Ties)  
SHEET NO.  
**CT-1**

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CURVE	RADIUS	LENGTH	TANGENT	DELTA	CURVE	RADIUS	LENGTH	TANGENT	DELTA	CURVE	RADIUS	LENGTH	TANGENT	DELTA
1	532.00'	83.05'	41.61'	08° 56' 39"	16	82.00'	36.31'	18.46'	25° 22' 11"	31	53.50'	5.22'	2.61'	05° 35' 22"
2	60.00'	31.32'	16.02'	29° 54' 15"	17	20.00'	19.77'	10.78'	56° 37' 59"	32	3.00'	4.72'	3.01'	90° 09' 00"
3	60.00'	109.11'	77.07'	104° 11' 41"	18	2.50'	7.56'	41.91'	173° 10' 18"	33	2.50'	7.56'	41.91'	173° 10' 18"
4	956.00'	74.32'	37.18'	04° 27' 14"	19	3.00'	5.35'	3.72'	102° 15' 51"	34	3.00'	5.35'	3.72'	102° 15' 51"
5	2.50'	7.55'	41.50'	173° 06' 22"	20	53.50'	5.22'	2.61'	05° 35' 10"	35	53.50'	5.22'	2.61'	05° 35' 10"
6	530.00'	34.64'	17.33'	03° 44' 37"	21	3.00'	4.72'	3.01'	90° 09' 00"	36	9.00'	15.43'	10.39'	98° 13' 21"
7	3.00'	5.35'	3.72'	102° 14' 18"	22	95.00'	49.34'	25.24'	29° 45' 21"	37	99.00'	16.19'	8.11'	09° 22' 12"
8	53.50'	5.26'	2.63'	05° 38' 07"	23	57.50'	41.67'	21.79'	41° 31' 02"	38	3.00'	6.49'	5.64'	124° 00' 28"
9	3.00'	4.70'	2.98'	89° 40' 37"	24	45.00'	37.84'	20.12'	48° 11' 03"	39	82.00'	27.76'	14.01'	19° 23' 42"
10	573.50'	33.77'	16.89'	03° 22' 22"	25	45.00'	36.84'	19.51'	46° 40' 41"	40	3.00'	7.10'	7.35'	135° 35' 55"
11	3.00'	7.38'	8.44'	140° 51' 23"	26	57.50'	36.88'	19.12'	37° 16' 42"	41	49.00'	10.43'	5.23'	12° 11' 27"
12	49.00'	14.88'	7.50'	17° 24' 06"	27	95.00'	52.44'	26.91'	31° 37' 36"	42	500.00'	39.35'	19.69'	04° 30' 34"
13	10.00'	15.71'	10.00'	90° 01' 18"	28	3.00'	4.73'	3.02'	90° 22' 13"	43	1183.00'	213.95'	107.27'	10° 21' 43"
14	99.00'	20.05'	10.06'	11° 36' 15"	29	2.50'	7.56'	41.88'	173° 10' 03"	44	20.00'	19.12'	10.36'	54° 19' 12"
15	3.00'	6.46'	5.57'	123° 20' 54"	30	3.00'	5.34'	3.71'	102° 03' 07"	45	60.00'	53.55'	28.70'	51° 07' 59"
										45	40.00'	14.88'	7.53'	21° 18' 32"

STATION #1200  
MAG. NAIL FND  
N 2965675.99  
E 380755.22  
ELEV=286.86

BENCHMARK# 2687  
RIVET IN SOUTHEAST  
CORNER OF THE  
CONCRETE PAD FOR  
TRAFFIC CONTROL BOX  
EL=288.10'



NOTE: EXISTING AND PROPOSED UTILITIES NOT SHOWN FOR CLARITY.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALSUKS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

**CDM Smith**  
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Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

CURB TIE PLANS

PROJECT NO. 0572-104636  
FILE NAME: HD (Curb Ties)  
SHEET NO. CT-2



NOTE: EXISTING AND PROPOSED UTILITIES NOT SHOWN FOR CLARITY.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
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DATE: AUGUST 2015

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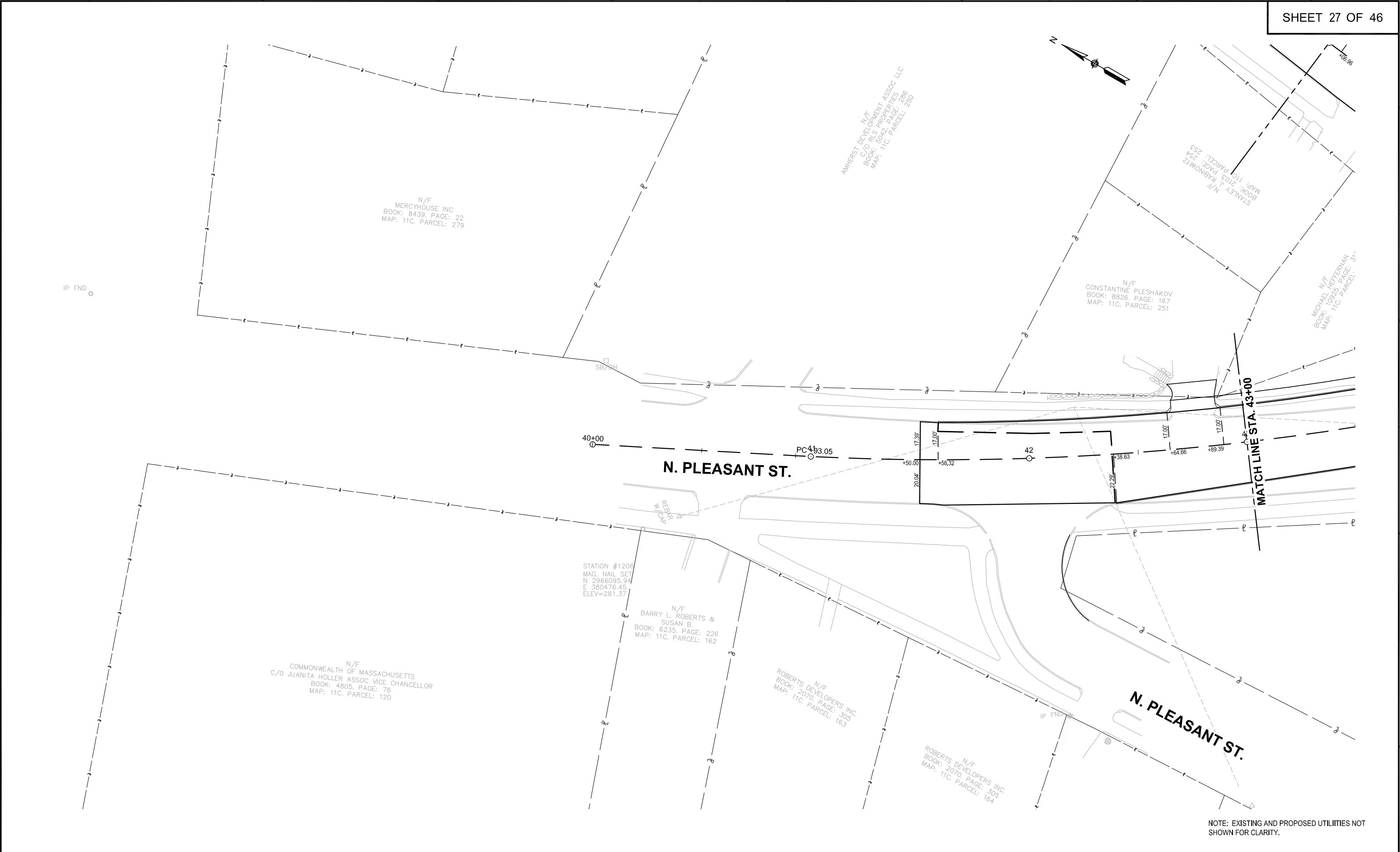
TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

CURB TIE PLANS

PROJECT NO. 0572-104636  
FILE NAME: HD (Curb Ties)  
SHEET NO.  
**CT-3**

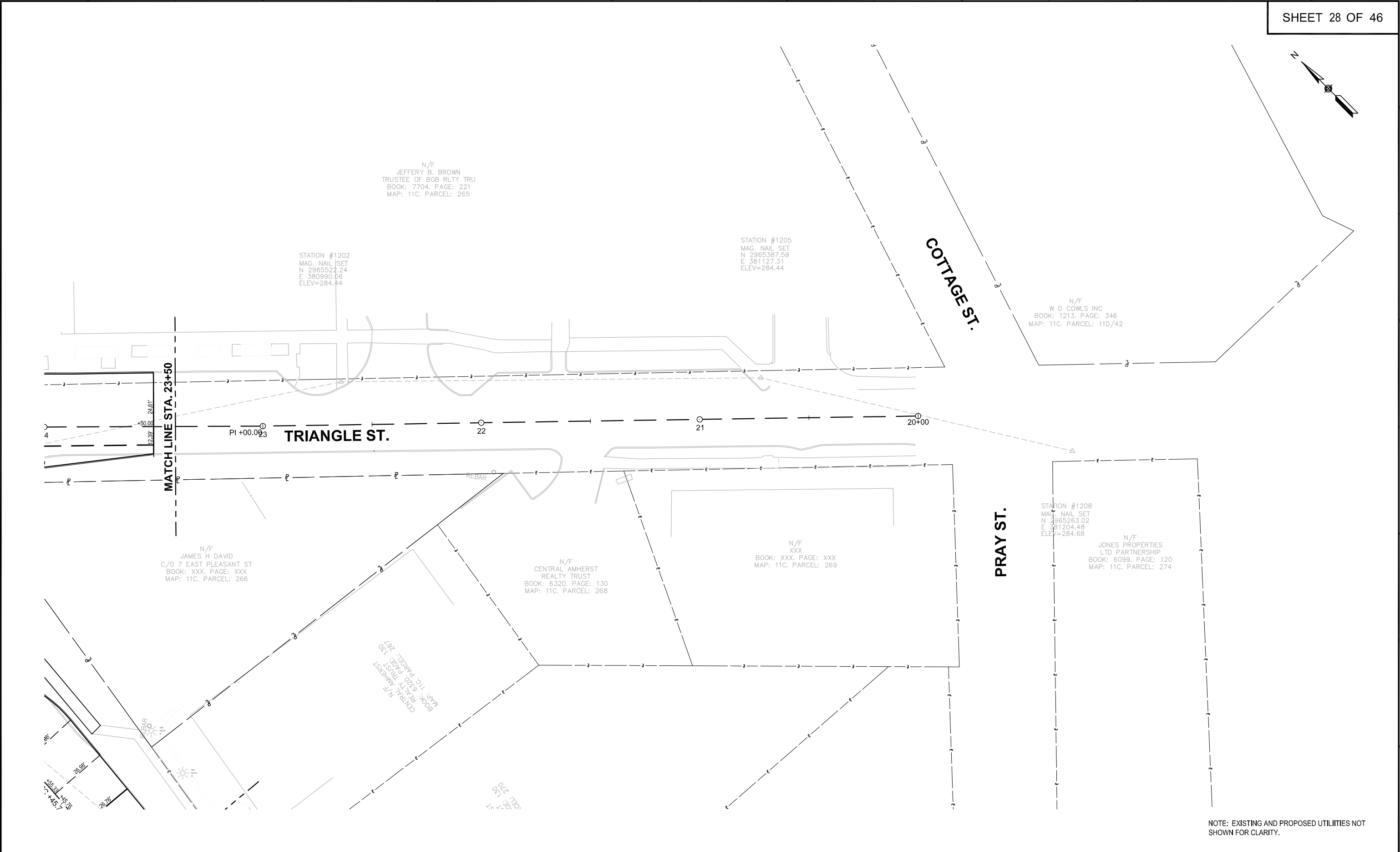
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					DESIGNED BY: <u>S. MURPHY</u>	<div>CDM Smith</div> <div>75 State Street, Suite 701 Boston, MA 02109 Tel: (617) 452-6000</div>	TOWN OF AMHERST, MA  EAST PLEASANT ST. AT TRIANGLE ST. TASK ORDER #15	CURB TIE PLANS	PROJECT NO. 0572-104636
					DRAWN BY: <u>A. DOMAZET</u>				FILE NAME: HD (Curb Ties)
					SHEET CHK'D BY: <u>S. MURPHY</u>				SHEET NO. <b>CT-4</b>
					CROSS CHK'D BY: <u>J. BALKUS</u>				
					APPROVED BY: <u>L. SHERMAN</u>				
REV. NO.	DATE	DRWN	CHKD	REMARKS	DATE: <u>AUGUST 2015</u>				

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NOTE: EXISTING AND PROPOSED UTILITIES NOT SHOWN FOR CLARITY.

					DESIGNED BY: <u>S. MURPHY</u>	 75 State Street, Suite 701 Boston, MA 02109 Tel: (617) 452-6000	TOWN OF AMHERST, MA  EAST PLEASANT ST. AT TRIANGLE ST. TASK ORDER #15	CURB TIE PLANS	PROJECT NO. 0572-104636
					DRAWN BY: <u>A. DOMAZET</u>				FILE NAME: HD (Curb Tie)
					SHEET CHK'D BY: <u>S. MURPHY</u>				SHEET NO.
					CROSS CHK'D BY: <u>J. BALSUKS</u>				CT-5
					APPROVED BY: <u>L. SHERMAN</u>				
REV. NO.	DATE	DRWN	CHKD	REMARKS	DATE: <u>AUGUST 2015</u>				



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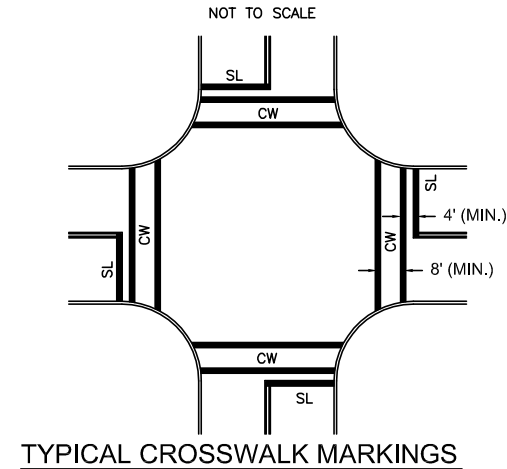
TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		MICROWAVE DETECTOR
		PEDESTRIAN PUSH BUTTON, SIGN (DIRECTIONAL ARROW AS SHOWN) AND SADDLE
		EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
		VEHICULAR SIGNAL HEAD
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED
		FLASHING BEACON
		PEDESTRIAN SIGNAL HEAD, (TYPE AS NOTED OR AS SPECIFIED)
		RAILROAD SIGNAL
		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
		MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		HIGH MAST POLE OR TOWER
		SIGN AND POST
		SIGN AND POST (2 POSTS)
		MAST ARM WITH LUMINAIRE
		OPTICAL PRE-EMPTION DETECTOR
		CONTROL CABINET, GROUND MOUNTED
		CONTROL CABINET, POLE MOUNTED
		FLASHING BEACON CONTROL AND METER PEDESTAL
		LOAD CENTER ASSEMBLY
		PULL BOX 12"x12" (OR AS NOTED)
		ELECTRIC HANDHOLE 12"x24" (OR AS NOTED)
		TRAFFIC SIGNAL CONDUIT
		CONTROLLER PHASE ACTUATED
		TRAFFIC SIGNAL HEAD (SIZE AS NOTED)
		WIRE LOOP DETECTOR (6' x 6' TYP UNLESS OTHERWISE SPECIFIED)
		VIDEO DETECTION CAMERA
		VEHICULAR SIGNAL HEAD, OPTICALLY PROGRAMMED (ALPHA-NUMERIC DESIGNATION NOTED)
		RADAR DETECTOR
		TRAFFIC SIGN & POST
		ZONE OF DETECTION FOR SPECIAL DETECTORS
		ZONE OF VISIBILITY FOR PROGRAMMED SIGNAL
		CONDUIT CROSSING ROADWAY WITH FLOWABLE FILL
		DETECTOR - LOCK
		DETECTOR - NON-LOCK
		VEHICLE MOVEMENT
		PEDESTRIAN MOVEMENT
		PERMISSIVE VEHICULAR MOVEMENT ONLY SHOWN ON PHASING DIAGRAMS
		DETECTOR CONTROLLING PHASE
		DON'T WALK / WALK

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE
		CROSSWALK
		SOLID WHITE/YELLOW LINE
		BROKEN WHITE/YELLOW LINE
		DOTTED WHITE/YELLOW LINE
		DOTTED WHITE/YELLOW LINE EXTENSION
		DOUBLE WHITE/YELLOW LINE
		REFLECTORIZED PAVEMENT MARKER
		WHITE GORE LINE - 8"
		YELLOW GORE LINE - 8"

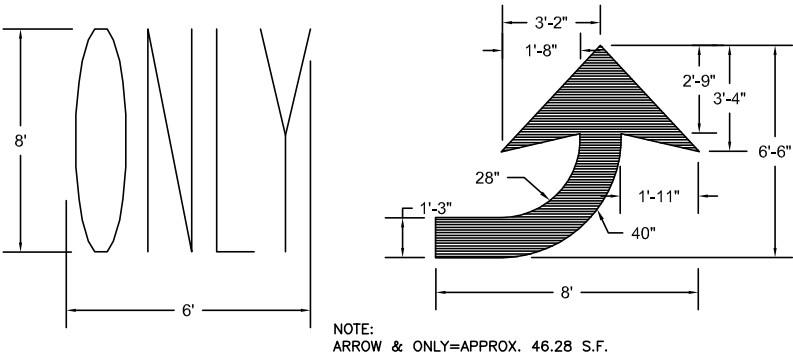
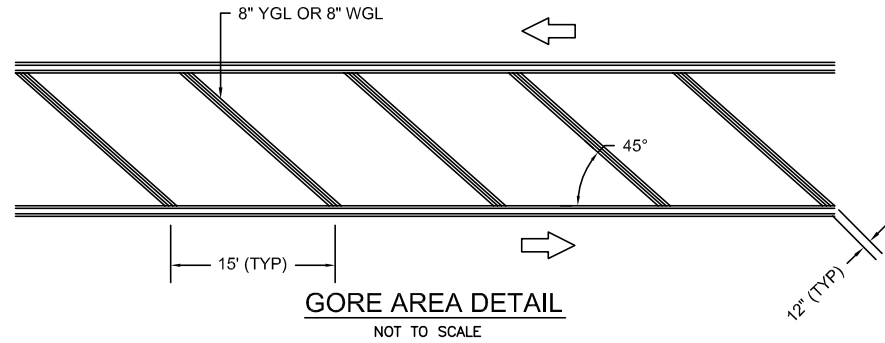
- \* BROKEN LANE LINES TO BE 10' IN LENGTH WITH 30' GAP (TYP)
- \*\* DASHED LINES TO BE 5' IN LENGTH WITH 5' GAP (TYP)



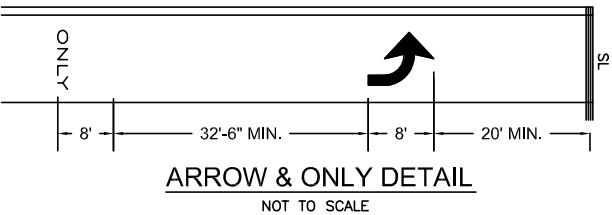
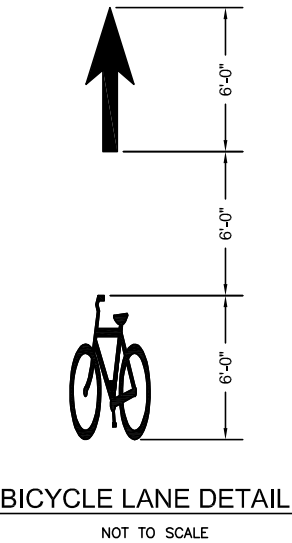
TYPICAL CROSSWALK MARKINGS

PAVEMENT MARKING AND SIGNING NOTES

- ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL BE RETAINED UNLESS NOTED OTHERWISE.
- ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- REFER TO MASSDOT STANDARDS FOR ADDITIONAL INFORMATION.



NOTE:  
ARROW & ONLY=APPROX. 46.28 S.F.



REV. NO.	DATE	DRWN	CHKD	REMARKS

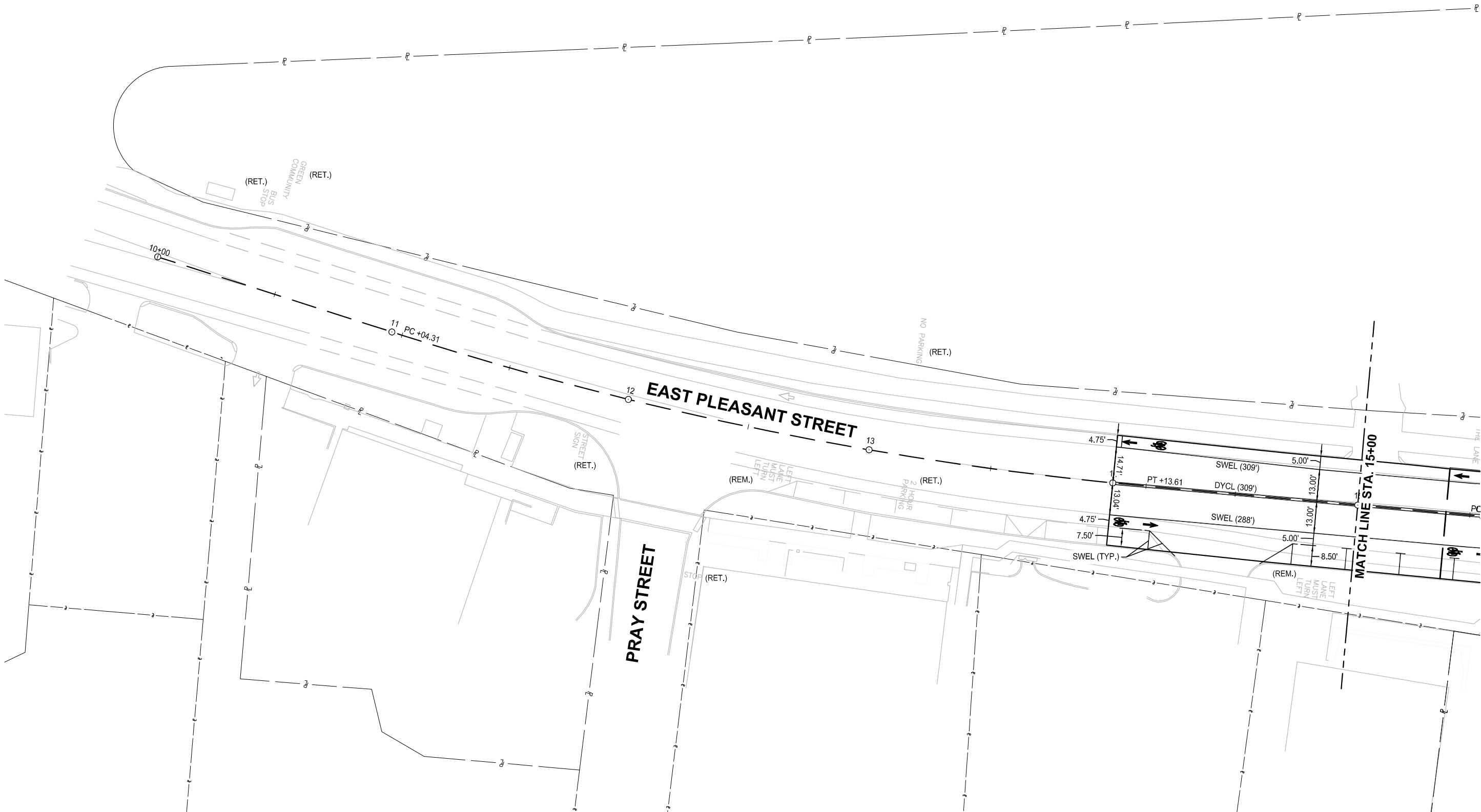
DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALSUKS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

**CDM Smith**  
75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

TRAFFIC LEGEND, ABBREVIATIONS & NOTES

PROJECT NO. 0572-104636  
FILE NAME: TR (Legend)  
SHEET NO.  
TL-1



NOTE: EXISTING AND PROPOSED UTILITIES NOT SHOWN FOR CLARITY

REV. NO.	DATE	DRWN	CHKD	REMARKS

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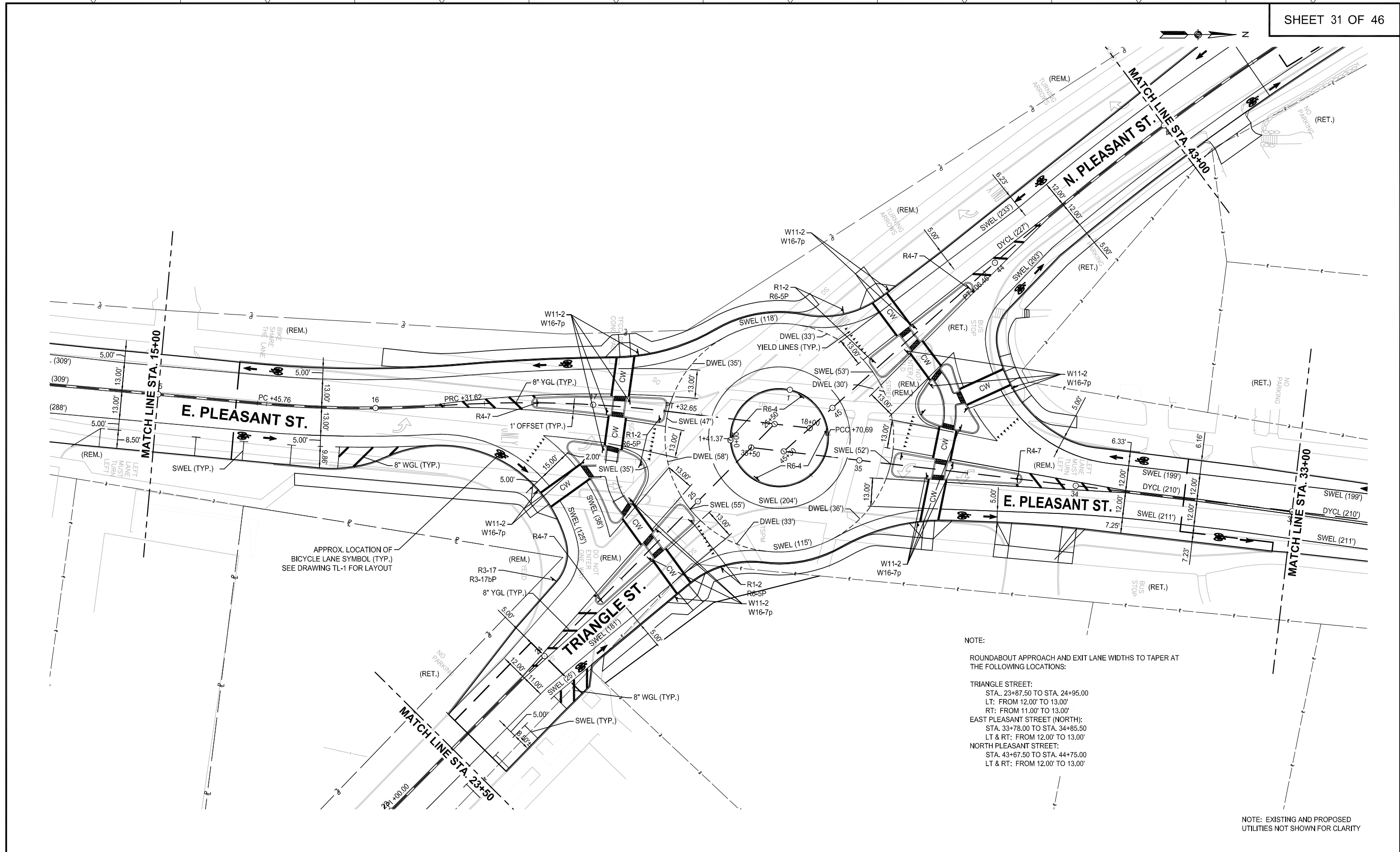
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Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

TRAFFIC SIGN & PAVEMENT MARKING PLANS

PROJECT NO. 0572-104636  
FILE NAME: TR (Sign & Marking)  
SHEET NO.  
**PM-1**

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					DRAWN BY: <u>A. DOMAZET</u>				
					SHEET CHK'D BY: <u>S. MURPHY</u>				
					CROSS CHK'D BY: <u>J. BALKSUS</u>				
					APPROVED BY: <u>L. SHERMAN</u>				
REV. NO.	DATE	DRWN	CHKD	REMARKS	DATE: <u>AUGUST 2015</u>				SHEET NO.  <b>PM-2</b>

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REV. NO.	DATE	DRWN	CHKD	REMARKS

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DATE: AUGUST 2015

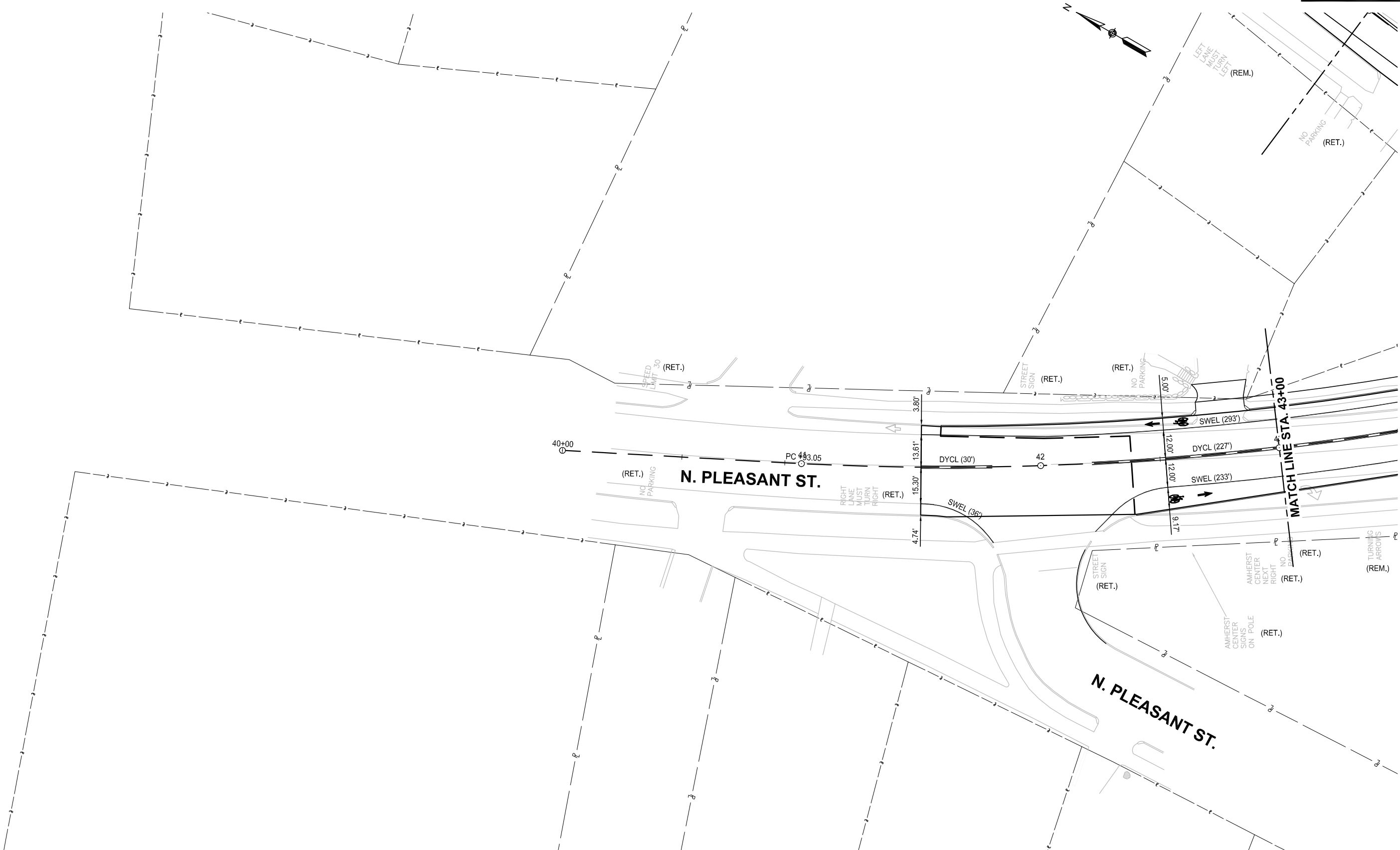
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Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

TRAFFIC SIGN & PAVEMENT MARKING PLANS

PROJECT NO. 0572-104636  
FILE NAME: TR (Sign & Marking)  
SHEET NO.  
**PM-3**

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REV. NO.	DATE	DRWN	CHKD	REMARKS

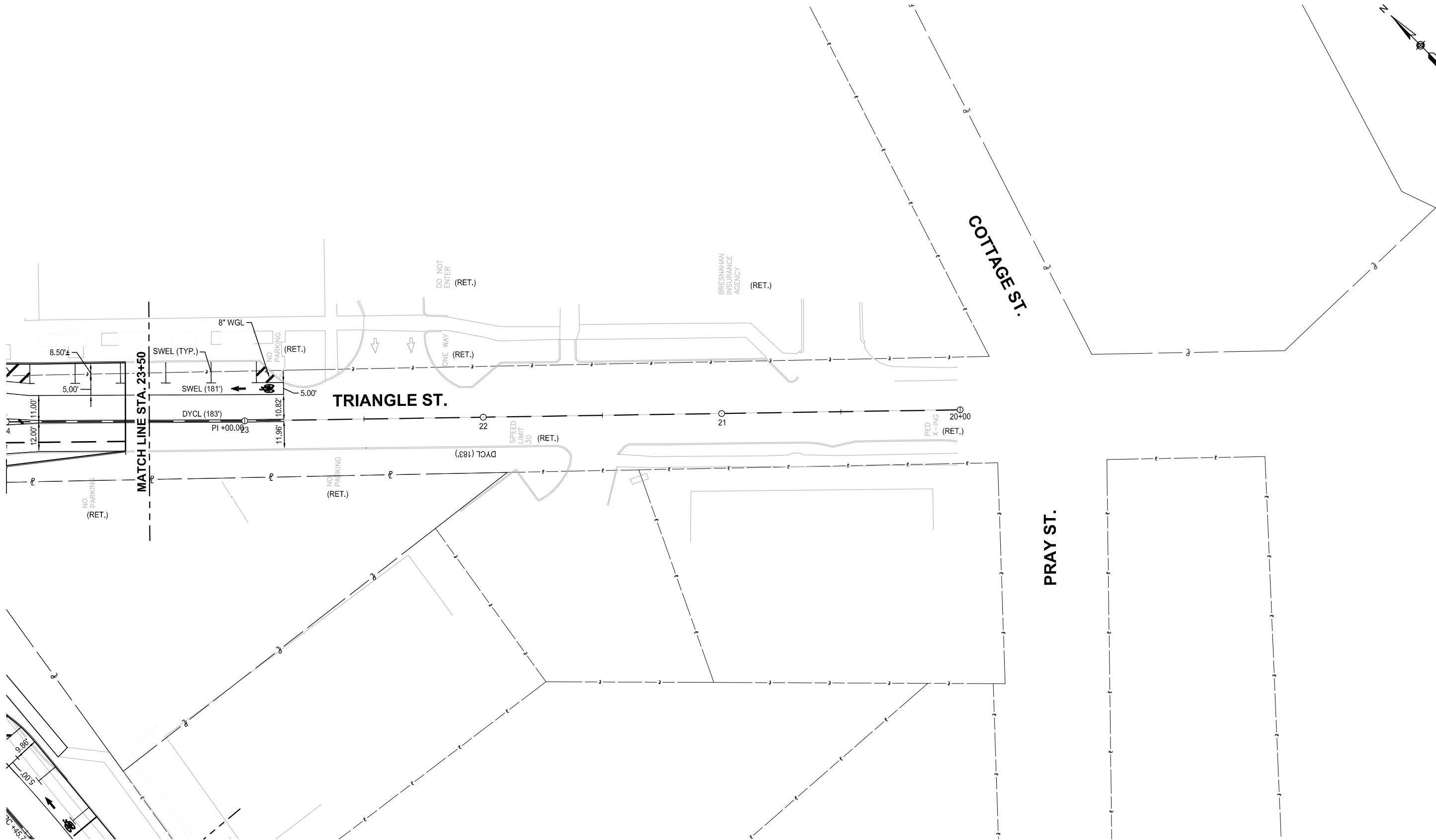
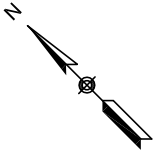
DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALKUS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

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75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

TRAFFIC SIGN & PAVEMENT MARKING PLANS

PROJECT NO. 0572-104636  
FILE NAME: TR (Sign & Marking)  
SHEET NO.  
**PM-4**



NOTE: EXISTING AND PROPOSED  
UTILITIES NOT SHOWN FOR CLARITY

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALKUS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015










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75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

TRAFFIC SIGN & PAVEMENT MARKING PLANS

PROJECT NO. 0572-104636  
FILE NAME: TR (Sign & Marking)  
SHEET NO.  
**PM-5**

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IDENTIFICATION NUMBER	SIZE OF SIGN (IN)		SIGN FACE	TEXT DIMENSIONS (IN)		NO. OF SIGNS REQUIRED	COLOR			POST SIZE & TYPE	UNIT AREA (SF)	TOTAL AREA (SF)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING		BACK- GROUND	LEGEND	BORDER			
R1-2	30	30				8				P-5	6.25	60.00
R3-17	24	18				1				P-5	3.00	3.00
R3-17bP	24	8				1				MOUNT WITH R3-17	1.33	1.33
R4-7	24	30				4				P-5	5.00	20.00
R6-4	24	30				4				P-5	5.00	20.00
R6-5P	30	30				8				MOUNT WITH R1-2	6.25	50.00
W11-2	30	30				20				P-5	6.25	125.00
W16-7p (L)	24	12				10				MOUNT WITH W11-2	2.00	20.00
W16-7p (R)	24	12				10				MOUNT WITH W11-2	2.00	20.00

MUTCD  
STANDARD

MUTCD  
STANDARD

SCALE: N.T.S.

REV. NO.	DATE	DRWN	CHKD	REMARKS

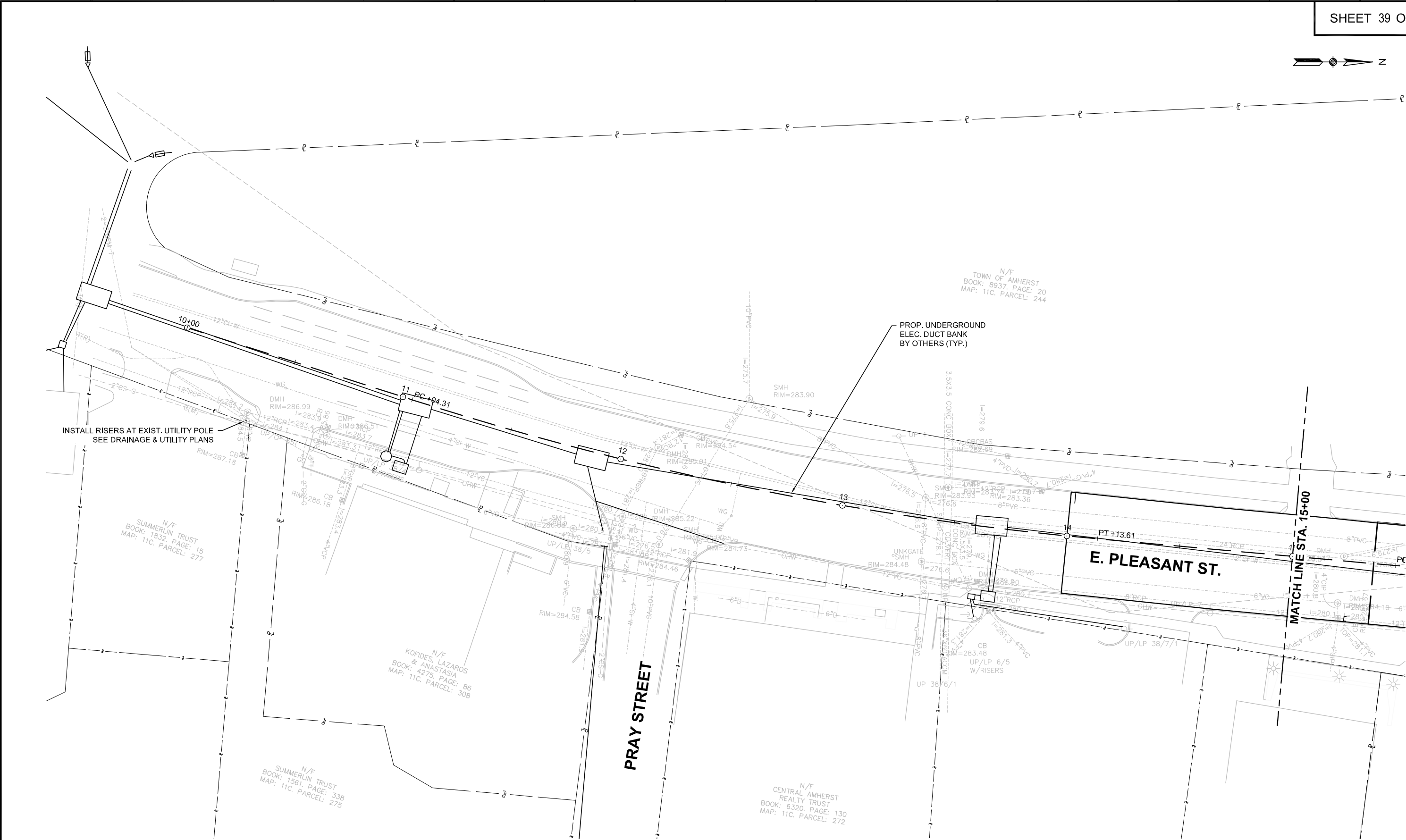
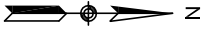
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75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

SIGN SUMMARY

PROJECT NO. 0572-104636  
FILE NAME: TR (Sign Summary)  
SHEET NO.  
SS-1



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: **S. MURPHY**  
DRAWN BY: **A. DOMAZET**  
SHEET CHK'D BY: **S. MURPHY**  
CROSS CHK'D BY: **J. BALSUKS**  
APPROVED BY: **L. SHERMAN**  
DATE: **AUGUST 2015**

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TOWN OF AMHERST, MA  
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TASK ORDER #15

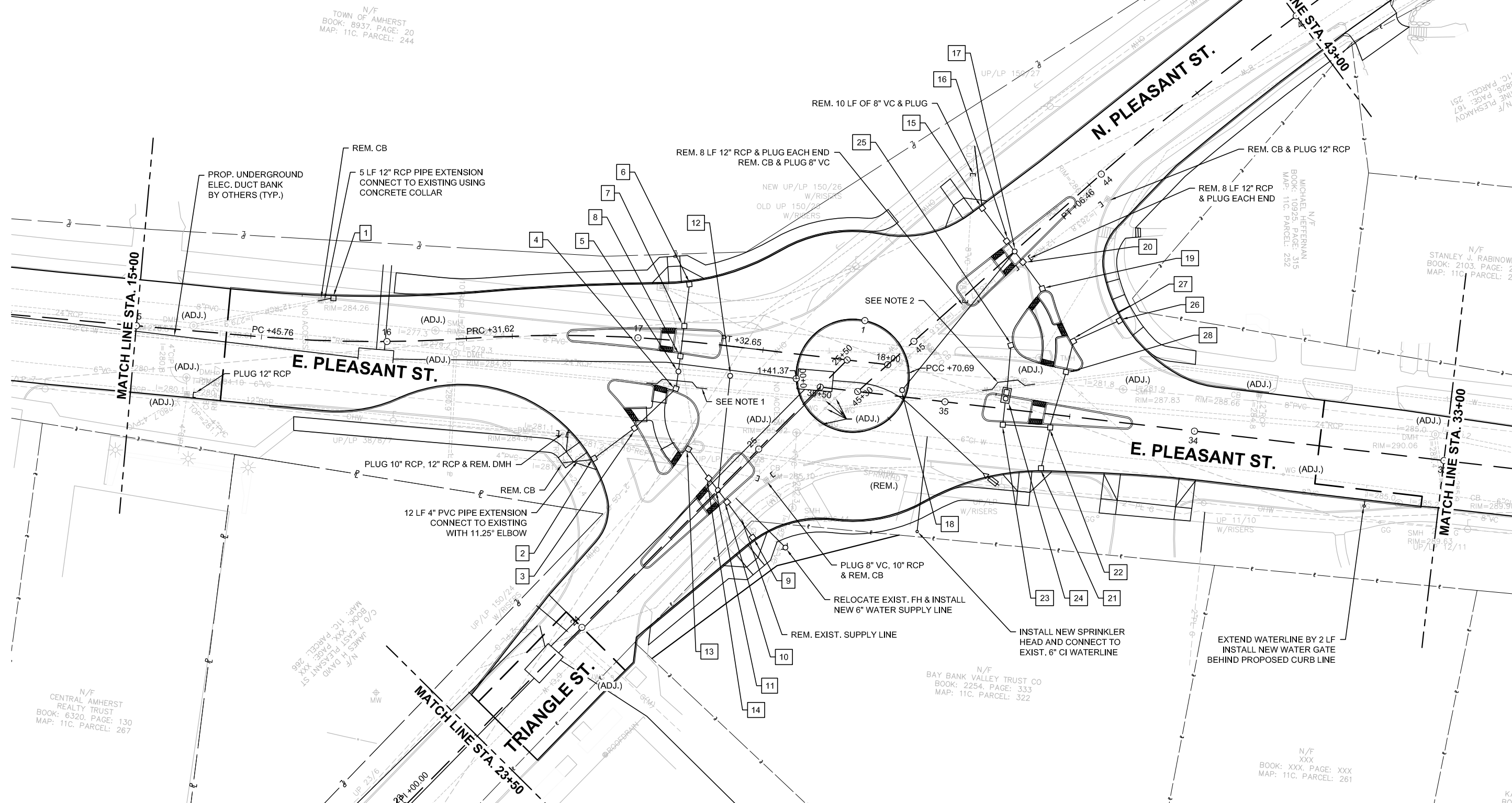
DRAINAGE & UTILITY PLANS

PROJECT NO. 0572-104636  
FILE NAME: UT (Plan)  
SHEET NO.  
**UP-1**



NOTES:

1. INSTALL 26 LF OF 12" CI WATERLINE USING (4) 45° BENDS
2. INSTALL 24 LF OF 12" CI WATERLINE USING (4) 45° BENDS
3. SEE DRAWING UT-3 FOR DRAINAGE DATA



REV. NO.	DATE	DRWN	CHKD	REMARKS

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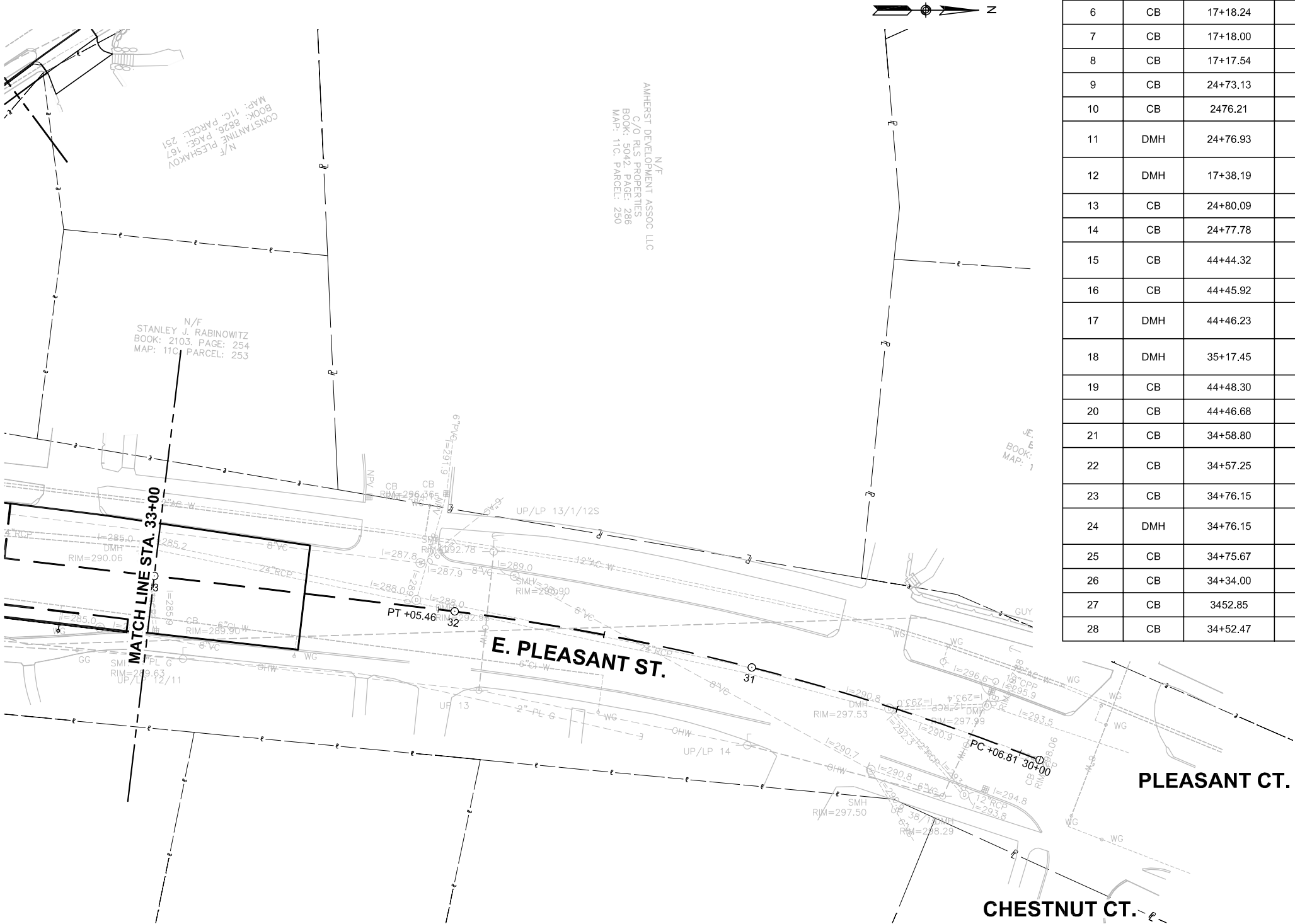


TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

## DRAINAGE & UTILITY PLANS

PROJECT NO.	0572-104636
FILE NAME:	UT (Plan)
SHEET NO.	
<b>UP-2</b>	

NO.	TYPE	STATION	OFFSET	RIM EL.	INV. EL. IN (DIR)	INV. EL. OUT (DIR)	NOTES
1	CB	15+78.22	18.00' LT	284.96	-	-(SE)	Prop. 5 LF 12" RCP from 1 to Exist.
2	CB	16+82.96	49.30' RT	285.11	281.54 (S)	281.10 (NW)	Prop. 16 LF 12" RCP from 2 to 3 Prop. 10 LF 6" PVC from 2 to Exist. 6" PVC
3	CB	17+01.60	35.40' RT	285.54	280.95 (SE)	280.90 (NW)	
4	CB	17+16.59	20.00' RT	285.71	280.72 (SE)	280.67 (W)	
5	DMH	17+17.24	12.20' RT	285.89	280.60 (EX. N) 280.72 (E) 280.67 (W)	280.60 (EX. S)	
6	CB	17+18.24	23.75' LT	285.67	-	281.95 (E)	Prop. 12 LF 12" RCP from 6 to 7
7	CB	17+18.00	5.00' LT	286.04	281.84 (W)	281.79 (E)	Prop. 8 LF 12" RCP from 7 to 8
8	CB	17+17.54	5.07' RT	286.03	281.72 (W)	281.17 (E)	Prop. 2 LF 18" RCP from 8 to 5
9	CB	24+73.13	24.05' RT	285.60	-	283.27 (SW)	Prop. 12 LF 12" RCP from 9 to 10
10	CB	2476.21	4.90' RT	286.02	283.16 (NE)	283.11 (SW)	Prop. 2 LF 12" RCP from 10 to 11
11	DMH	24+76.93	CL	286.63	283.09 (NE) 283.09 (SW)	282.57 (W)	Prop. 44 LF 18" RCP from 11 to 12
12	DMH	17+38.19	11.70' RT	286.29	280.90 (EX. N) 282.36 (E)	280.90 (EX. S)	
13	CB	24+80.09	20.85' LT	285.76	-	283.23 (NE)	Prop. 9 LF 12" RCP from 13 to 14
14	CB	24+77.78	4.90' LT	286.04	283.16 (SW)	283.11 (NE)	Prop. 2 LF 12" RCP from 14 to 11
15	CB	44+44.32	22.44' RT	287.18	284.18 (W)	283.79 (NE)	Prop. 14 LF 12" RCP from 15 to 16 Prop. 24 LF 8" RCP from 15 to Exist. 8" VC
16	CB	44+45.92	4.15' RT	287.55	283.69 (SW)	283.65 (NE)	Prop. 2 LF 12" RCP from 16 to 17
17	DMH	44+46.23	CL	288.13	283.61 (NE) 283.61 (SW)	283.09 (SE)	Prop. 67 LF 18" RCP from 17 to 18
18	DMH	35+17.45	2.64' RT	288.43	281.90 (EX. N) 282.42 (NW)	281.90 (EX. S)	
19	CB	44+48.30	19.30' LT	287.24	-	283.78 (SW)	Prop. 8 LF 12" RCP from 19 to 20
20	CB	44+46.68	4.37' LT	287.54	283.70 (NE)	283.65 (SW)	Prop. 2 LF 12" RCP from 20 to 17
21	CB	34+58.80	22.80' LT	287.14	-	284.40 (W)	Prop. 11 LF 12" RCP from 21 to 22
22	CB	34+57.25	4.25' LT	287.54	283.77 (E) 283.77 (W)	283.25 (S)	Prop. 12 LF 24" RCP from 22 to 23
23	CB	34+76.15	5.38' LT	287.39	283.14 (N)	283.09 (W)	Prop. 7 LF 24" RCP from 23 to 24
24	DMH	34+76.15	4.05' RT	288.00	282.50 (EX. N) 283.02 (E) 283.56 (W)	282.50 (S)	
25	CB	34+75.67	25.83' RT	286.93	-	283.68 (E)	Prop. 13 LF 12" RCP from 25 to 24
26	CB	34+34.00	40.83' RT	287.46	-	284.28 (SE)	Prop. 15 LF 12" RCP from 26 to 27
27	CB	3452.85	29.35' RT	287.87	284.14 (NW)	284.09 (W)	Prop. 10 LF 12" RCP from 27 to 28
28	CB	34+52.47	18.45' RT	287.32	284.00 (W)	283.95 (E)	Prop. 19 LF 18" RCP from 28 to 22



REV. NO.	DATE	DRWN	CHKD	REMARKS

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APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

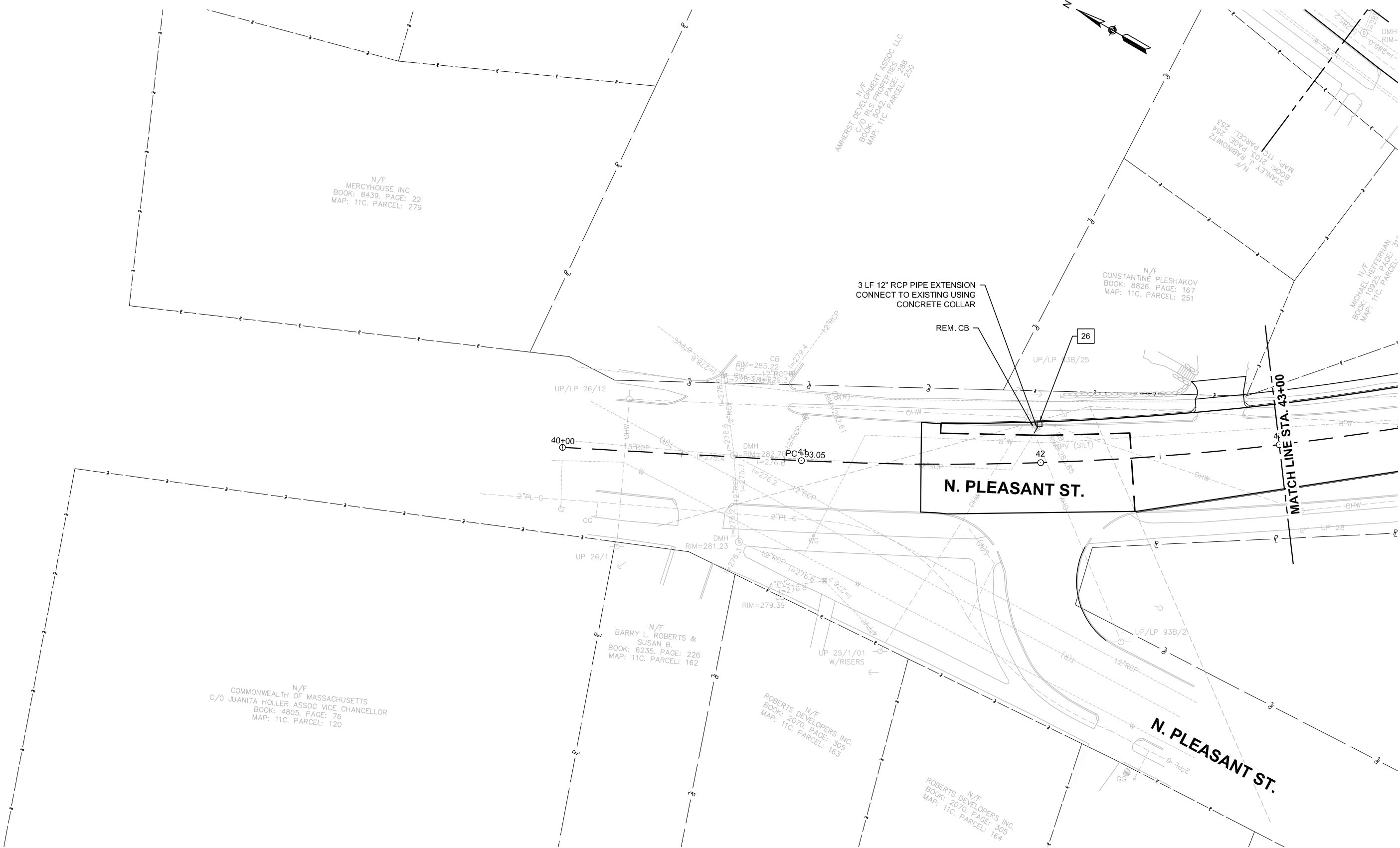
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75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

DRAINAGE & UTILITY PLANS

PROJECT NO. 0572-104636  
FILE NAME: UT (Plan)  
SHEET NO.  
**UP-3**

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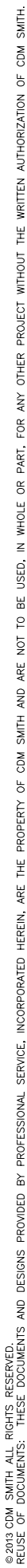
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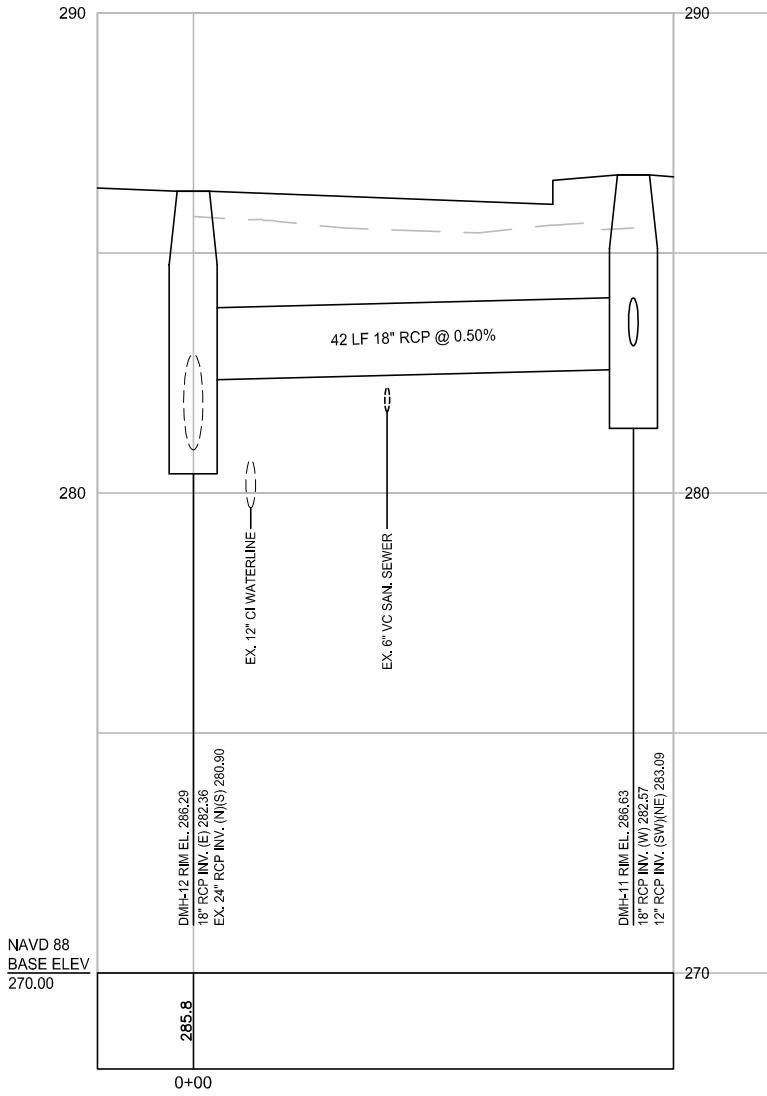
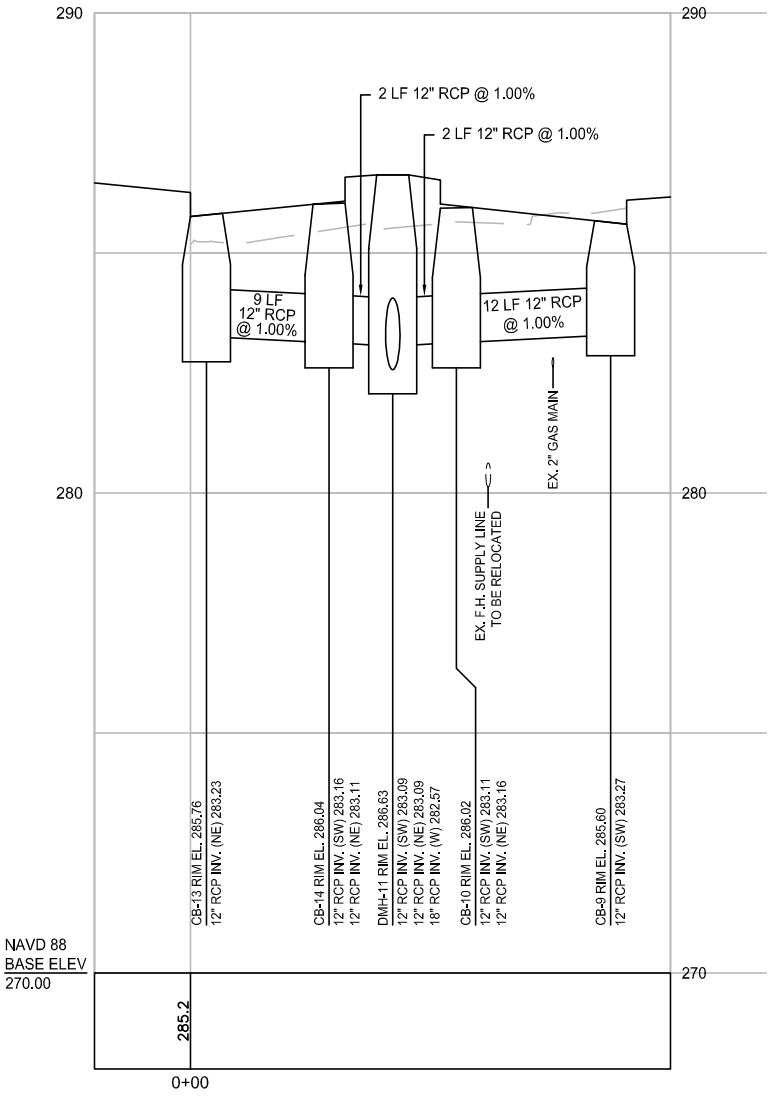
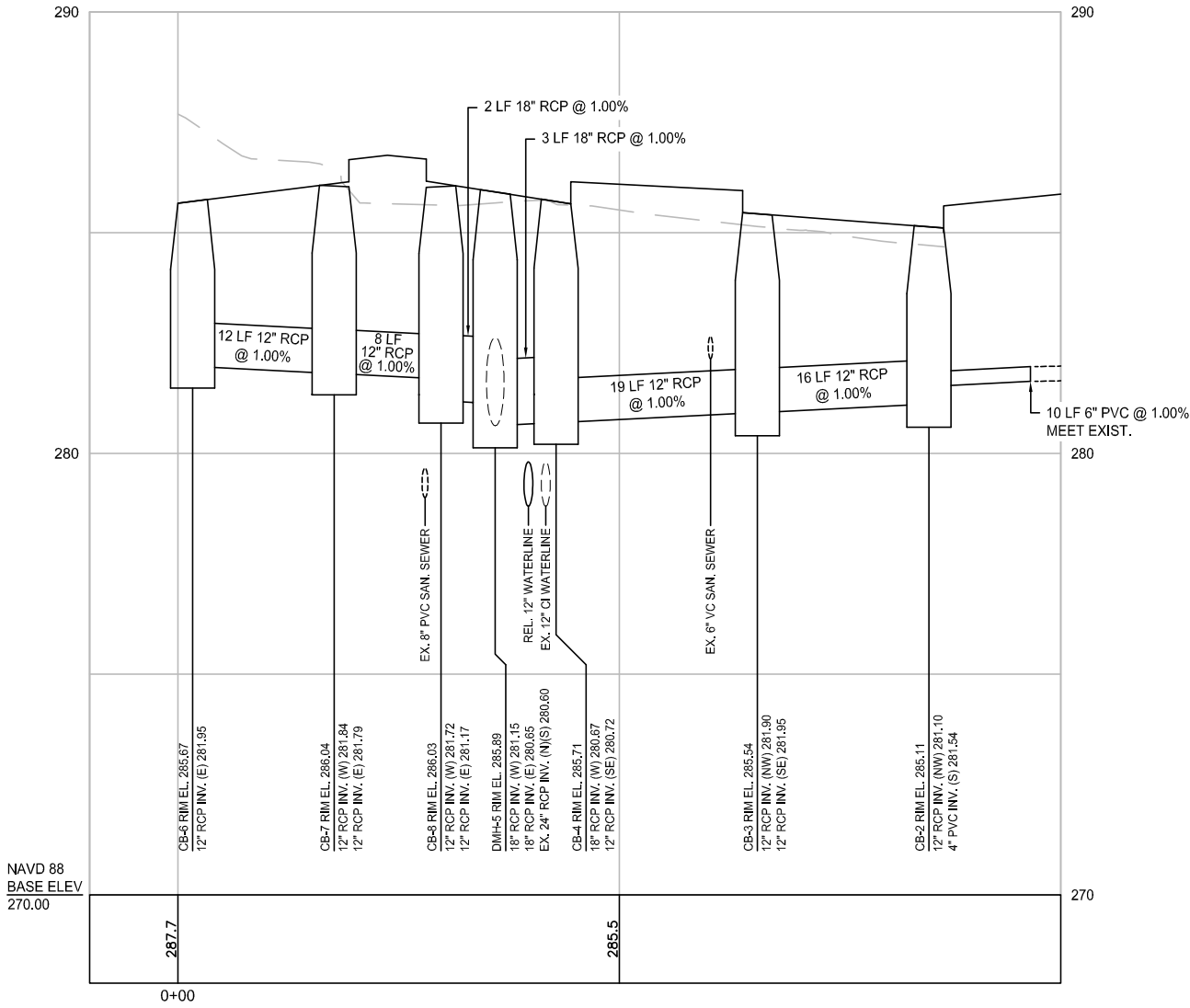
TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

DRAINAGE & UTILITY PLANS

PROJECT NO. 0572-104636  
FILE NAME: UT (Plan)  
SHEET NO.  
**UP-4**



					DESIGNED BY: <u>S. MURPHY</u>	 75 State Street, Suite 701 Boston, MA 02109 Tel: (617) 452-6000	TOWN OF AMHERST, MA  EAST PLEASANT ST. AT TRIANGLE ST. TASK ORDER #15	DRAINAGE & UTILITY PLANS	PROJECT NO. 0572-104636
					DRAWN BY: <u>A. DOMAZET</u>				FILE NAME: <u>UT (Plan)</u>
					SHEET CHK'D BY: <u>S. MURPHY</u>				
					CROSS CHK'D BY: <u>J. BALSUKUS</u>				
					APPROVED BY: <u>L. SHERMAN</u>				
					DATE: <u>AUGUST 2015</u>				SHEET NO.
REV. NO.	DATE	DRWN	CHKD	REMARKS					<b>UP-5</b>



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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALSUKS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

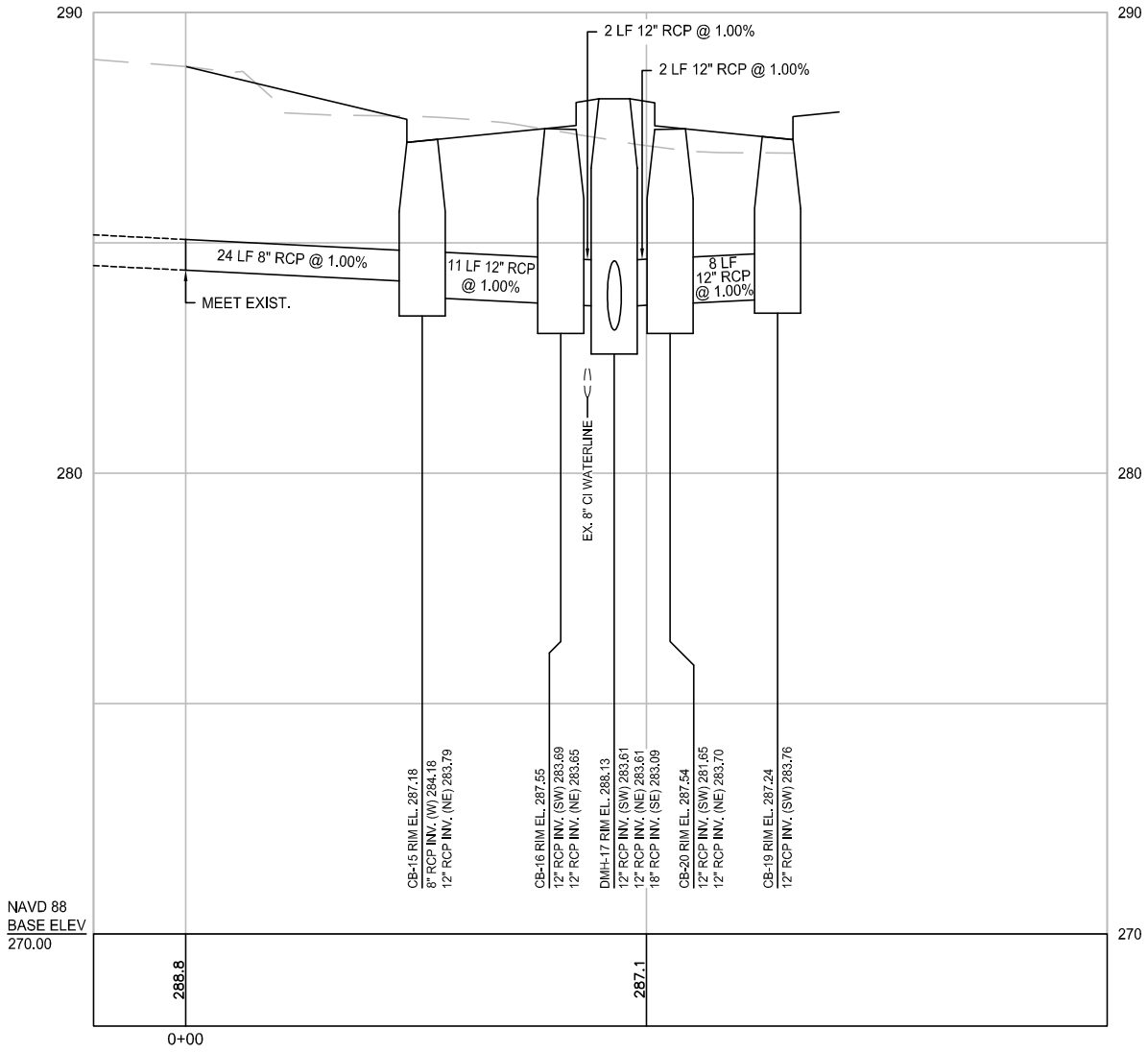
**CDM Smith**  
75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

DRAINAGE PROFILES

PROJECT NO. 0572-104636  
FILE NAME: UT (Profiles)  
SHEET NO.  
**DP-1**

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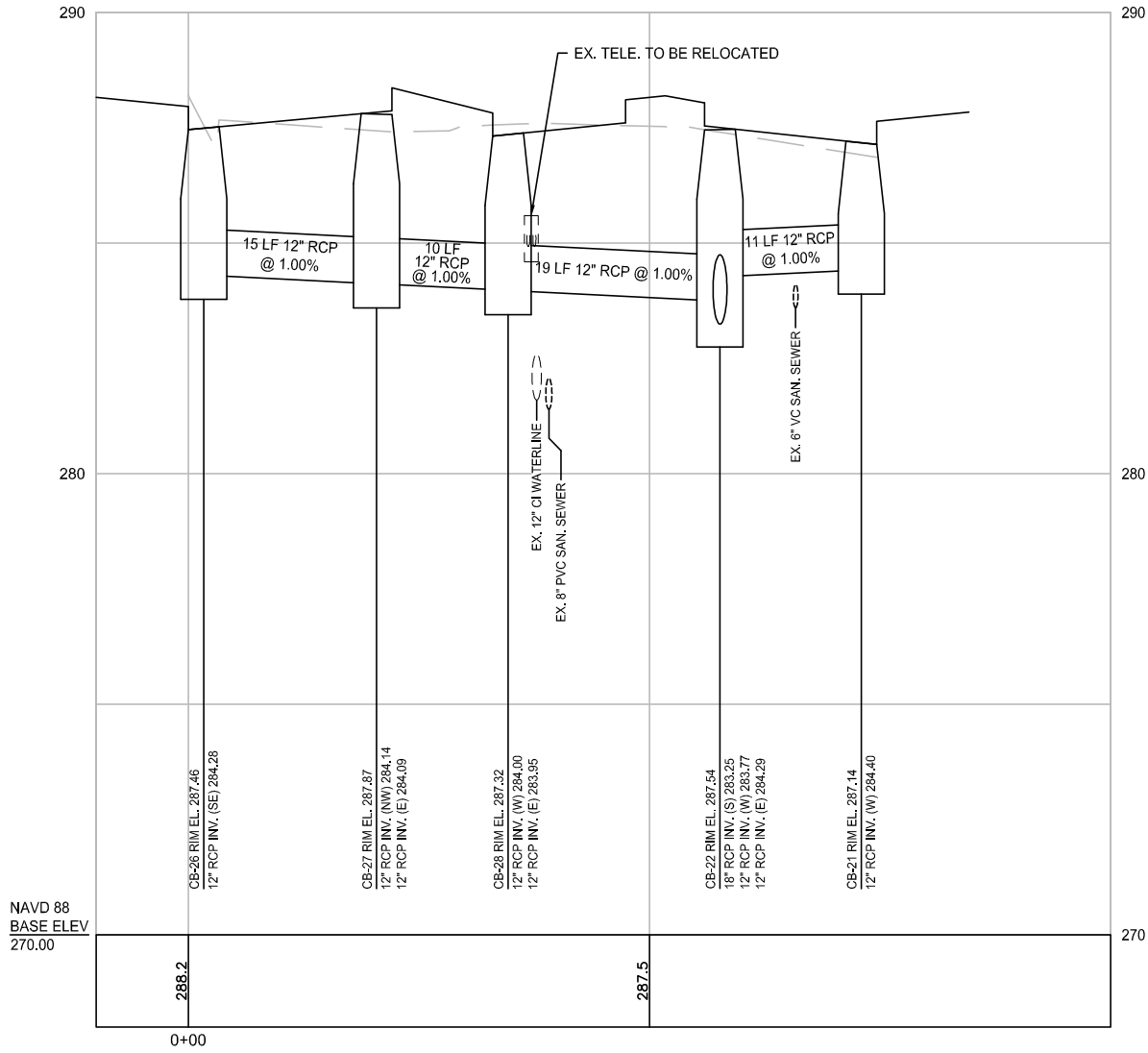
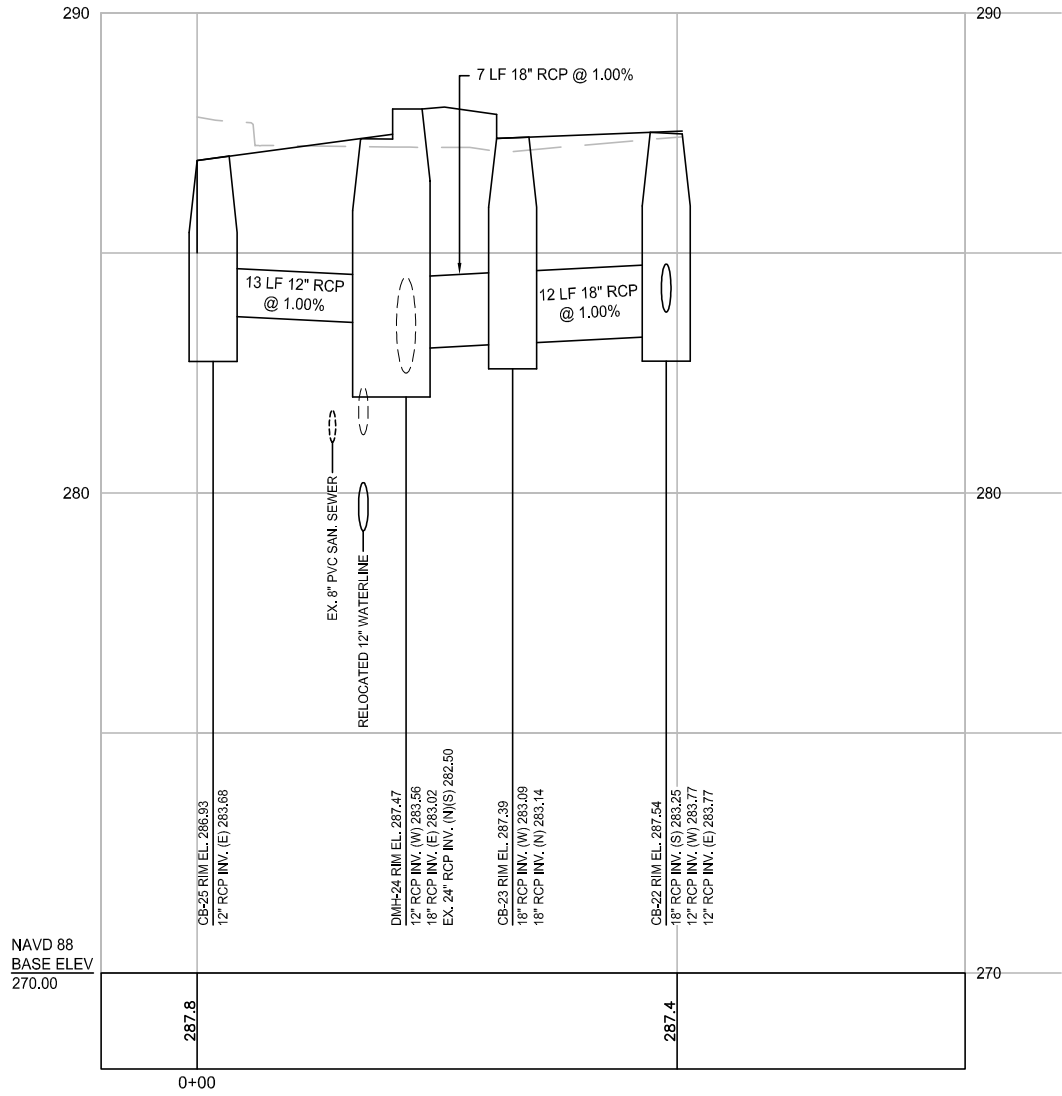
**CDM Smith**  
75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

DRAINAGE PROFILES

PROJECT NO. 0572-104636  
FILE NAME: UT (Profiles)  
SHEET NO.  
**DP-2**

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: S. MURPHY  
DRAWN BY: A. DOMAZET  
SHEET CHK'D BY: S. MURPHY  
CROSS CHK'D BY: J. BALKUS  
APPROVED BY: L. SHERMAN  
DATE: AUGUST 2015

**CDM Smith**  
75 State Street, Suite 701  
Boston, MA 02109  
Tel: (617) 452-6000

TOWN OF AMHERST, MA  
EAST PLEASANT ST. AT TRIANGLE ST.  
TASK ORDER #15

DRAINAGE PROFILES

PROJECT NO. 0572-104636  
FILE NAME: UT (Profiles)  
SHEET NO.  
**DP-3**